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Emissions and Efficiency Performance of Industrial Coal Stoker Fired Boilers-- Data Supplement

P. L. Langsjoen, et al

KVB, Incorporated
Minneapolis, Minnesota

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EMISSIONS AND EFFICIENCY PERFORMANCE OF INDUSTRIAL COAL STOKER FIRED BOILERS - DATA SUPPLEMENT

by

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Boilers	Efficiency	Stationary Sources	13A	
Combustion	Flue Gases	Combustion Modification	21B	
Coal	Fly Ash	Spreader Stokers	21D	
Field Tests	Particle Size	Chain Grate Stokers	14B	
Dust	Nitrogen Oxides	Particulate	11G	07B
Stokers	Sulfur Oxides	Overfire Air		

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FOREWORD

The American Boiler Manufacturers Association (ABMA) under contract to the United States Department of Energy and the United States Environmental Protection Agency has conducted a program of field tests as part of research into factors affecting performance of stoker fired boilers. This document has been prepared by KVB, Inc., the field testing subcontractor to ABMA for this project.

This document presents, by way of tables and plots, the data gathered during field tests on eleven coal stoker fired boilers. It has been prepared as a Data Supplement to the project's final report entitled "Emissions and Efficiency Performance of Industrial Coal Stoker Fired Boilers." All discussions of the data, and all conclusions drawn from it, are contained in the final report.

This Data Supplement serves those who wish to examine the data in greater detail than is presented in the final report. It is recognized that many relationships not addressed in the final report may be of interest to researchers in the future.

The data in this supplement are organized by measured parameter first and test site second. This facilitates direct comparisons of a given parameter between sites, and helps consolidate the data into subject groups. The table of contents provides a detailed listing of the parameters included in each data table and data plot. Test Sites L1 through L7 are not represented in this supplement because their data are included in total in the final report.

The first 163 pages contain computer generated tables of data. It should be noted that the heat losses and boiler efficiencies in Table 11 were generated by a computer program which made use of averages when combustible data was missing. As a result, some of the combustible heat loss numbers are approximations rather than actual measured values.

The last 316 pages contain selected computer generated plots derived from the same data tape which produced the tables. In these plots, the primary measured parameters are plotted against percent boiler design capacity and excess air. A few additional plots have also been included. This selection of plots was chosen from a possible 2000+ plots to keep the Data Supplement at a reasonable size.

ABSTRACT

This document is a Data Supplement to a report entitled, "Emissions and Efficiency Performance of Industrial Coal Stoker Fired Boilers." It contains tables and plots of field test data which, because of their number, could not be included in the final report. It is intended as a reference for researchers who wish to examine the data in greater detail than that provided for in the final report. The tables contain the complete gaseous, particulate, coal and efficiency data for all tests at Test Sites A through K. The plots correlate the major parameters with percent boiler design capacity and excess air. A few additional relationships are also included in the plots.

The Data Supplement is based on the findings of an extensive coal stoker test program conducted for the American Boiler Manufacturers Association (ABMA) by KVB, Inc., between August 1977 and November 1979. This report was submitted in partial fulfillment of Contract No. IAG-D7-E681 (EPA) and EF-77-C-01-2609 (DOE).

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- Chlorine (%)
- Sulfur (%)
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The continuous technical support of Mr. Ken Barnes, Computer Programmer, is also gratefully acknowledged. Mr. Barnes wrote the software which produced the data plots and was active throughout the project in refining this software and teaching others how to use it.

This project was supervised by the American Boiler Manufacturers Association (ABMA)Stoker Technical Committee which provided valuable guidance. The U.S. Department of Energy project monitors were W. T. Harvey and W. Siskind. The U.S. Environmental Protection Agency project monitor was R. E. Hall.

CONVERSION FACTORS

ENGLISH AND METRIC UNITS TO SI UNITS

To Convert From	To	Multiply By
in	cm	2.540
in^2	cm^2	6.452
ft	m	0.3048
ft^2	m^2	0.09290
ft^3	m^3	0.02832
lb	Kg	0.4536
lb/hr	Mg/s	0.1260
$lb/10^6Btu$	ng/J	430
g/Mcal	ng/J	239
Btu	J	1054
Btu/lb	J/kg	2324
Btu/hr	W	0.2929
J/sec	W	1.000
J/hr	W	3600
Btu/ft/hr	W/m	0.9609
Btu/ft/hr	J/hr/m	3459
$Btu/ft^2/hr$	W/m^2	3.152
$Btu/ft^2/hr$	$J/hr/m^2$	11349
$Btu/ft^3/hr$	W/m^3	10.34
$Btu/ft^3/hr$	$J/hr/m^3$	37234
psia	Pa	6895
$"H_2O$	Pa	249.1
Rankine	Celsius	C = 5/9R-273
Fahrenheit	Celsius	C = 5/9(F-32)
Celsius	Kelvin	K = C+273
Rankine	Kelvin	K = 5/9R

APPROXIMATE CONVERSION FACTORS FOR A TYPICAL COAL FUEL

ppm @ 3% O_2 (SOx as SO_2)	ng/J ($lb/10^6Btu$)	0.851 ($1.98x10^{-3}$)
ppm @ 3% O_2 (NOx as NO_2)	ng/J ($lb/10^6Btu$)	0.611 ($1.42x10^{-3}$)
ppm @ 3% O_2 (CO)	ng/J ($lb/10^6Btu$)	0.372 ($8.65x10^{-4}$)
ppm @ 3% O_2 (CH_4)	ng/J ($lb/10^6Btu$)	0.213 ($4.95x10^{-4}$)
g/Kg of Fuel	ng/J ($lb/10^6Btu$)	4300 (10)

CONVERSION FACTORS

SI UNITS TO ENGLISH AND METRIC UNITS

To Convert From	To	Multiply By
cm	in	0.3937
cm^2	in^2	0.1550
m	ft	3.281
m^2	ft^2	10.764
m^3	ft^3	35.315
Kg	lb	2.205
Mg/s	lb/hr	7.937
ng/J	$lb/10^6$Btu	0.00233
ng/J	g/Mcal	0.00418
J	Btu	0.000948
J/kg	Btu/lb	0.000430
J/hr/m	Btu/ft/hr	0.000289
$J/hr/m^2$	$Btu/ft^2/hr$	0.0000881
$J/hr/m^3$	$Btu/ft^3/hr$	0.0000269
W	Btu/hr	3.414
W	J/hr	0.000278
W/m	Btu/ft/hr	1.041
W/m^2	$Btu/ft^2/hr$	0.317
W/m^3	$Btu/ft^3/hr$	0.0967
Pa	psia	0.000145
Pa	$"H_2O$	0.004014
Kelvin	Fahrenheit	F = 1.8K-460
Celsius	Fahrenheit	F = 1.8C+32
Fahrenheit	Rankine	R = F+460
Kelvin	Rankine	R = 1.8K

APPROXIMATE CONVERSION FACTORS FOR A TYPICAL COAL FUEL

ng/J	ppm @ 3% O_2 (SOx as SO_2)	1.18
ng/J	ppm @ 3% O_2 (NOx as NO_2)	1.64
ng/J	ppm @ 3% O_2 (CO)	2.69
ng/J	ppm @ 3% O_2 (CH_4)	4.69
ng/J	g/kg of fuel	0.000233

SI PREFIXES

Multiplication Factor	Prefix	SI Symbol
10^{18}	exa	E
10^{15}	peta	P
10^{12}	tera	T
10^{9}	giga	G
10^{6}	mega	M
10^{3}	kilo	k
10^{2}	hecto*	h
10^{1}	deka*	da
10^{-1}	deci*	d
10^{-2}	centi*	c
10^{-3}	milli	m
10^{-6}	micro	μ
10^{-9}	nano	n
10^{-12}	pico	p
10^{-15}	femto	f
10^{-18}	atto	a

*Not recommended but occasionally used

EMISSION UNITS CONVERSION FACTORS
FOR TYPICAL COAL FUEL (HV = 13,320 BTU/LB)

To Obtain \ Multiply By	% Weight in Fuel		lbs/10^6Btu		grams/10^6Cal		PPM (Dry @ 3% O_2)		Grains/SCF. (Dry @ 12% CO_2)	
	S	H	SO_2	NO_2	SO_2	NO_2	SOx	NOx	SO_2	NO_2
% Weight In Fuel — S	1		0.666		0.370		13.2×10^{-4}		1.48	
% Weight In Fuel — H				0.405		0.225		5.76×10^{-4}		.903
lbs/10^6Btu — SO_2	1.50		1		(.556)		19.8×10^{-4}		(2.23)	
lbs/10^6Btu — NO_2		2.47				(.556)		14.2×10^{-4}		(2.23)
grams/10^6Cal — SO_2	2.70		(1.8)		1		35.6×10^{-4}		(4.01)	
grams/10^6Cal — NO_2		4.44		(1.8)				25.6×10^{-4}		(4.01)
PPM (Dry @ 3% O_2) — SOx	758		505		281		1		1127	
PPM (Dry @ 3% O_2) — NOx		1736		704		391				1566
Grains/SCF (Dry @ 12% CO_2) — SO_2	.676		(.448)		(.249)		8.87×10^{-4}		1	
Grains/SCF (Dry @ 12% CO_2) — NO_2		1.11		(.448)		(.249)		6.39×10^{-4}		

NOTE: 1. Values in parenthesis can be used for all flue gas constituents such as oxides of carbon, oxides of nitrogen, oxides of sulfur, hydrocarbons, particulates, etc.
2. Standard reference temperature of 530°R was used.

KVB4-15900-554

TABLE 1

ABMA TEST SITE A

BACKGROUND INFORMATION

BOILER MANUFACTURER	FOSTER WHEELER
BOILER TYPE	VOSP
DESIGN CAPACITY 10**3 LB/HR	300.000
STEAM PRESSURE, PSIG	320.000
STEAM TEMPERATURE, F	427.000
FURNACE VOLUME, FT**3	16712.000
STOKER MANUFACTURER	DETROIT
STOKER TYPE	SPREADER
GRATE TYPE	TRAVELING
GRATE WIDTH, FT	27.125
GRATE EFFECTIVE AREA, FT**2	515.400
YEAR BUILT	1976
FLY ASH REINJECTION	BLR, AH, DC

TABLE 1

ABMA TEST SITE B

BACKGROUND INFORMATION

BOILER MANUFACTURER	RILEY
BOILER TYPE	VOSP
DESIGN CAPACITY 10**3 LB/HR	200.000
STEAM PRESSURE, PSIG	185.000
STEAM TEMPERATURE, F	500.000
FURNACE VOLUME, FT**3	12910.000
STOKER MANUFACTURER	RILEY
STOKER TYPE	SPREADER
GRATE TYPE	TRAVELING
GRATE WIDTH, FT	20.031
GRATE EFFECTIVE AREA, FT**2	370.000
YEAR BUILT	1974
FLY ASH REINJECTION	BLR, DC HPR

TABLE 1

ABMA TEST SITE C

BACKGROUND INFORMATION

BOILER MANUFACTURER	BABCOCK AND WILCOX
BOILER TYPE	SPB
DESIGN CAPACITY 10**3 LB/HR	182.500
STEAM PRESSURE, PSIG	875.000
STEAM TEMPERATURE, F	900.000
FURNACE VOLUME, FT**3	12100.000
STOKER MANUFACTURER	DETROIT
STOKER TYPE	SPREADER
GRATE TYPE	TRAVELING
GRATE WIDTH, FT	27.125
GRATE EFFECTIVE AREA, FT**2	515.400
YEAR BUILT	1975
FLY ASH REINJECTION	BLR, OC HPR

TABLE 1

ABMA TEST SITE D

BACKGROUND INFORMATION

BOILER MANUFACTURER	BABCOCK AND WILCOX
BOILER TYPE	FP
DESIGN CAPACITY 10**3 LB/HR	90.000
STEAM PRESSURE, PSIG	200.000
STEAM TEMPERATURE, F	387.000
FURNACE VOLUME, FT**3	3520.000
STOKER MANUFACTURER	DETROIT
STOKER TYPE	OVERFEED
GRATE TYPE	VIBRATING
GRATE WIDTH, FT	15.494
GRATE EFFECTIVE AREA, FT**2	256.300
YEAR BUILT	1964
FLY ASH REINJECTION	NONE

TABLE 1

ABMA TEST SITE E

BACKGROUND INFORMATION

BOILER MANUFACTURER	RILEY
BOILER TYPE	VOSP
DESIGN CAPACITY 10**3 LB/HR	180.000
STEAM PRESSURE, PSIG	175.000
STEAM TEMPERATURE, F	427.000
FURNACE VOLUME, FT**3	10255.000
STOKER MANUFACTURER	RILEY
STOKER TYPE	SPREADER
GRATE TYPE	TRAVELING
GRATE WIDTH, FT	16.000
GRATE EFFECTIVE AREA, FT**2	344.000
YEAR BUILT	1973
FLY ASH REINJECTION	BLR HPR

TABLE 1

ABMA TEST SITE F

BACKGROUND INFORMATION

BOILER MANUFACTURER	KEELER
BOILER TYPE	MKB
DESIGN CAPACITY 10**3 LB/HR	80.000
STEAM PRESSURE, PSIG	150.000
STEAM TEMPERATURE, F	366.000
FURNACE VOLUME, FT**3	4105.000
STOKER MANUFACTURER	DETROIT
STOKER TYPE	SPREADER
GRATE TYPE	TRAVELING
GRATE WIDTH, FT	10.875
GRATE EFFECTIVE AREA, FT**2	141.400
YEAR BUILT	1976
FLY ASH REINJECTION	BLR, ECON H

TABLE 1

ABMA TEST SITE G

BACKGROUND INFORMATION

BOILER MANUFACTURER	ZURN
BOILER TYPE	VC
DESIGN CAPACITY 10**3 LB/HR	75.000
STEAM PRESSURE, PSIG	160.000
STEAM TEMPERATURE, F	371.000
FURNACE VOLUME, FT**3	4120.000
STOKER MANUFACTURER	ZURN
STOKER TYPE	SPREADER
GRATE TYPE	TRAVELING
GRATE WIDTH, FT	9.750
GRATE EFFECTIVE AREA, FT**2	139.000
YEAR BUILT	1974
FLY ASH REINJECTION	BLR HPR

TABLE 1

ABMA TEST SITE H

BACKGROUND INFORMATION

BUILER MANUFACTURER	BROS
BOILER TYPE	
DESIGN CAPACITY 10**3 LB/HR	45.000
STEAM PRESSURE, PSIG	140.000
STEAM TEMPERATURE, F	353.000
FURNACE VOLUME, FT**3	1850.000
STOKER MANUFACTURER	RILEY
STOKER TYPE	OVERFEED
GRATE TYPE	TRAVELING
GRATE WIDTH, FT	13.000
GRATE EFFECTIVE AREA, FT**2	140.250
YEAR BUILT	1959
FLY ASH REINJECTION	NONE

TABLE 1

AUMA TEST SITE I

BACKGROUND INFORMATION

BOILER MANUFACTURER	WICKES
BOILER TYPE	RB
DESIGN CAPACITY 10**3 LB/HR	70.000
STEAM PRESSURE, PSIG	150.000
STEAM TEMPERATURE, F	401.000
FURNACE VOLUME, FT**3	3900.000
STOKER MANUFACTURER	RILEY
STOKER TYPE	OVERFEED
GRATE TYPE	TRAVELING
GRATE WIDTH, FT	14.000
GRATE EFFECTIVE AREA, FT**2	252.600
YEAR BUILT	1960
FLY ASH REINJECTION	NONE

TABLE 1

ABMA TEST SITE J

BACKGROUND INFORMATION

BOILER MANUFACTURER	KEELER
BOILER TYPE	MKB
DESIGN CAPACITY 10**3 LB/HR	70.000
STEAM PRESSURE, PSIG	150.000
STEAM TEMPERATURE, F	358.000
FURNACE VOLUME, FT**3	4005.000
STOKER MANUFACTURER	LACLEDE
STOKER TYPE	OVERFEED
GRATE TYPE	CHAIN
GRATE WIDTH, FT	14.000
GRATE EFFECTIVE AREA, FT**2	213.000
YEAR BUILT	1977
FLY ASH REINJECTION	NONE

TABLE 1

AGMA TEST SITE K

BACKGROUND INFORMATION

BOILER MANUFACTURER	RILEY
BOILER TYPE	VO
DESIGN CAPACITY 10**3 LB/HR	50.000
STEAM PRESSURE, PSIG	125.000
STEAM TEMPERATURE, F	344.000
FURNACE VOLUME, FT**3	2614.000
STOKER MANUFACTURER	RILEY
STOKER TYPE	OVERFEED
GRATE TYPE	TRAVELING
GRATE WIDTH, FT	10.000
GRATE EFFECTIVE AREA, FT**2	160.000
YEAR BUILT	1977
FLY ASH REINJECTION	NONE

TABLE 2 EMISSION DATA SUMMARY PAGE 1

ABMA TEST SITE A

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	DC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
02A	08/10/77	1	425.	21.	0.467	***	***	***	***	***
02B	08/10/77	1	425.	16.	0.428	***	***	***	***	***
02C	08/10/77	1	425.	11.	0.386	***	***	***	***	***
02D	08/10/77	1	425.	5.	0.347	***	***	***	***	***
02E	08/10/77	1	425.	17.	0.409	***	***	***	***	***
02F	08/10/77	1	425.	22.	0.440	***	***	***	***	***
02G	08/10/77	1	425.	27.	0.485	***	***	***	***	***
02H	08/10/77	1	425.	34.	0.542	***	***	***	***	***
03	08/11/77	1	437.	20.	0.423	***	***	0.580	***	***
04	08/17/77	1	432.	38.	0.673	***	***	0.650	***	***
05	08/18/77	1	521.	20.	0.520	***	***	0.660	***	***
06	08/18/77	1	504.	33.	0.561	***	***	0.950	***	***
07A	08/19/77	1	488.	28.	0.541	***	***	***	***	***
07B	08/19/77	1	488.	19.	0.494	***	***	***	***	***
07C	08/19/77	1	488.	15.	0.443	***	***	***	***	***
07D	08/19/77	1	488.	13.	0.434	***	***	***	***	***
07E	08/19/77	1	488.	27.	0.534	***	***	***	***	***
08A	08/20/77	1	471.	25.	0.550	1.384	***	***	***	***
08B	08/20/77	1	471.	43.	0.611	0.574	***	***	***	***
09	08/23/77	1	437.	26.	0.493	1.489	***	***	***	***
10	08/24/77	1	264.	83.	0.747	***	***	0.540	***	***
11A	08/24/77	1	298.	54.	0.664	***	***	***	***	***
11B	08/24/77	1	298.	56.	0.685	***	***	***	***	***
11C	08/24/77	1	298.	62.	0.733	***	***	***	***	***
11D	08/24/77	1	298.	71.	0.791	***	***	***	***	***
11E	08/24/77	1	298.	77.	0.809	***	***	***	***	***
11F	08/24/77	1	298.	50.	0.607	***	***	***	***	***
12	08/24/77	1	327.	36.	0.561	1.500	***	***	***	***
13A	08/25/77	1	557.	28.	0.680	***	***	***	***	***
13B	08/25/77	1	557.	17.	0.550	***	***	***	***	***
14A	08/26/77	1	521.	30.	0.603	***	***	0.660	***	***
14B	08/26/77	1	521.	32.	0.596	***	***	***	***	***
15	08/27/77	1	528.	23.	0.579	***	***	0.570	***	***
16	08/30/77	2	428.	36.	0.667	***	***	0.510	***	***
17A	08/31/77	2	375.	48.	0.565	***	***	***	***	***
17B	08/31/77	2	375.	54.	0.584	***	***	***	***	***
18A	09/11/77	1	334.	49.	0.523	1.692	***	***	***	***
18B	09/11/77	1	334.	46.	0.555	0.600	***	***	***	***
19	09/12/77	1	317.	43.	0.546	***	***	***	***	***
20	09/14/77	2	305.	29.	0.417	2.083	***	***	***	***
21	09/23/77	2	590.	23.	0.524	***	12.120	***	***	***
22	09/23/77	2	600.	20.	0.492	***	16.630	***	***	***
23	09/24/77	2	423.	22.	0.525	***	11.670	***	***	***
24	09/24/77	2	423.	25.	0.504	***	8.430	***	***	***
25A	10/05/77	2	533.	27.	0.599	***	***	***	***	***
25B	10/05/77	2	533.	22.	0.577	***	***	***	***	***
26A	10/06/77	2	507.	27.	0.596	***	9.770	***	***	***
26B	10/06/77	2	531.	24.	0.576	***	***	0.600	***	***
27	10/08/77	2	584.	21.	0.531	***	***	***	***	***

TABLE 2

EMISSION DATA SUMMARY

ABMA TEST SITE A

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	DC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
28	10/10/77	2	603.	18.	0.548	***	20.480	***	***	***
29	10/10/77	2	613.	18.	0.547	***	15.410	***	***	***
30	10/13/77	2	574.	19.	0.634	***	***	***	***	***
31A	10/14/77	2	382.	10.	0.267	***	***	***	***	***
31B	10/14/77	2	382.	10.	0.267	***	***	***	***	***
31C	10/14/77	2	382.	10.	0.274	***	***	***	***	***
31D	10/14/77	2	382.	16.	0.331	***	***	***	***	***
31E	10/14/77	2	382.	16.	0.333	***	***	***	***	***
31F	10/14/77	2	382.	16.	0.326	***	***	***	***	***
32	10/15/77	2	596.	28.	0.678	***	***	***	***	***
34A	10/29/77	3	595.	34.	0.490	0.995	11.890	***	***	***
34B	10/29/77	3	598.	40.	0.434	0.942	***	***	***	***
35A	10/30/77	3	545.	35.	0.540	0.796	20.480	***	***	***
35B	10/30/77	3	545.	39.	0.526	0.681	***	***	***	***
36	11/01/77	3	576.	24.	0.461	***	18.510	***	***	***
37	11/01/77	3	622.	28.	0.472	***	22.540	***	***	***
38	11/02/77	3	423.	24.	0.437	***	6.290	***	***	***
39	11/02/77	3	432.	26.	0.472	***	13.260	***	***	***
40	11/11/77	2	476.	44.	0.742	***	***	***	***	***

TABLE 2 EMISSION DATA SUMMARY PAGE 1

ABMA TEST SITE B

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	OC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
02	12/21/77	1	235.	109.	0.439	***	6.570	***	***	***
03	01/05/78	2	238.	101.	0.395	***	8.880	0.540	93.9	***
04	01/06/78	1	385.	59.	0.318	***	9.650	0.450	95.3	***
05	01/08/78	2	375.	43.	0.266	***	***	***	***	***
06	01/11/78	3	571.	31.	0.293	***	11.650	0.470	96.0	***
07	01/12/78	3	693.	25.	0.267	***	10.280	0.760	92.6	***
08	01/26/78	1	571.	89.	0.412	***	15.510	0.830	94.6	***
09	01/26/78	1	592.	46.	0.311	***	8.160	0.520	93.6	***
10A	01/27/78	3	259.	110.	0.473	***	***	***	***	***
10B	01/27/78	3	259.	85.	0.419	***	***	***	***	***
10C	01/27/78	3	259.	68.	0.368	***	***	***	***	***
10D	01/27/78	3	259.	185.	0.589	***	***	***	***	***
11	01/28/78	4	377.	69.	0.429	***	7.210	0.480	93.3	***
12	01/28/78	4	400.	59.	0.373	***	9.570	0.500	94.8	***
13A	02/03/78	4	556.	53.	0.354	***	***	***	***	***
13B	02/03/78	4	556.	37.	0.300	***	***	***	***	***
13C	02/03/78	4	556.	27.	0.257	***	***	***	***	***
14A	02/04/78	4	758.	36.	0.346	***	***	***	***	***
14B	02/04/78	4	758.	27.	0.342	***	***	***	***	***
14C	02/04/78	4	758.	18.	0.298	***	***	***	***	***
14D	02/04/78	4	758.	42.	0.393	***	***	***	***	***
15	02/06/78	4	675.	25.	0.293	***	12.530	***	***	***
16	02/07/78	4	675.	48.	0.399	***	14.630	***	***	***
17	02/09/78	4	655.	44.	0.421	***	10.660	0.470	95.6	***
18	02/17/78	3	565.	43.	0.373	***	12.760	0.810	93.7	***
19	02/18/78	1	564.	28.	0.321	***	10.530	0.560	94.7	***
20	02/18/78	1	548.	46.	0.451	***	10.810	0.560	94.8	***
21	02/20/78	2	557.	46.	0.419	***	9.250	0.620	93.3	***
22	02/20/78	2	564.	41.	0.300	***	12.270	0.820	93.3	***
23	02/22/78	1	764.	34.	0.343	***	9.590	0.490	94.9	***
24	03/02/78	3	754.	31.	0.349	***	13.880	3.530	74.6	***
25	03/03/78	1	791.	32.	0.431	***	15.750	0.600	96.2	***

TABLE 2 EMISSION DATA SUMMARY PAGE 2

ABMA TEST SITE B

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	UC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
26A	03/05/78	2	771.	32.	0.383	***	12.670	0.640	94.9	***
26C	03/05/78	2	766.	25.	0.339	***	***	***	***	***
27	03/09/78	1	576.	42.	0.413	***	11.750	0.590	95.0	***
28	03/09/78	1	601.	43.	0.404	***	9.980	0.340	96.6	***
29	03/16/78	1	648.	44.	0.346	***	***	***	***	***
30	03/17/78	2	602.	38.	0.313	***	***	***	***	***
31	03/18/78	1	575.	38.	0.348	***	***	***	***	***
32	03/20/78	2	573.	37.	0.318	***	***	***	***	***
33	03/21/78	3	611.	39.	0.338	***	***	***	***	***

TABLE 2

EMISSION DATA SUMMARY

ABMA TEST SITE C

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	DC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
05A	04/20/78	1	456.	75.	0.539	***	***	***	***	***
05B	04/20/78	1	456.	58.	0.514	***	***	***	***	***
05C	04/20/78	1	456.	50.	0.481	***	***	***	***	***
06A	04/20/78	1	429.	68.	0.432	***	***	***	***	***
06B	04/20/78	1	429.	87.	0.482	***	***	***	***	***
06C	04/20/78	1	429.	113.	0.597	***	***	***	***	***
07A	04/21/78	1	437.	74.	0.451	***	***	***	***	***
07B	04/21/78	1	437.	74.	0.458	***	***	***	***	***
07C	04/21/78	1	437.	81.	0.440	***	***	***	***	***
07D	04/21/78	1	437.	74.	0.414	***	***	***	***	***
08	04/25/78	1	288.	88.	0.523	***	13.090	***	***	***
09	05/01/78	1	397.	70.	0.421	***	25.000	0.820	96.7	***
10	05/03/78	1	451.	72.	0.514	***	6.020	0.480	92.0	***
11	05/03/78	1	439.	72.	0.486	***	7.000	0.500	92.9	***
12	05/04/78	1	432.	69.	0.392	***	19.020	0.690	96.4	***
13	05/04/78	1	400.	70.	0.347	***	21.110	0.640	97.0	***
14	05/09/78	1	431.	74.	0.450	***	20.880	0.940	95.5	***
15	05/10/78	1	425.	72.	0.458	***	22.030	0.780	96.6	***
16	05/11/78	1	417.	67.	0.452	***	23.860	0.840	96.5	***
17A	05/12/78	1	343.	92.	0.402	***	***	***	***	***
17B	05/12/78	1	343.	77.	0.348	***	***	***	***	***
17C	05/12/78	1	343.	62.	0.324	***	***	***	***	***
18A	05/12/78	1	343.	84.	0.428	***	***	***	***	***
18B	05/12/78	1	343.	66.	0.333	***	***	***	***	***
18C	05/12/78	1	343.	52.	0.303	***	***	***	***	***
19	05/12/78	1	417.	67.	0.456	***	25.140	0.880	96.5	***
20	05/13/78	1	274.	103.	0.461	***	13.230	0.510	96.1	***
21A	05/16/78	2	385.	91.	0.498	***	***	***	***	***
21B	05/16/78	2	385.	74.	0.494	***	***	***	***	***
21C	05/16/78	2	385.	60.	0.491	***	***	***	***	***
22A	05/16/78	2	385.	69.	0.436	***	***	***	***	***
22B	05/16/78	2	385.	50.	0.404	***	***	***	***	***
22C	05/16/78	2	385.	86.	0.507	***	***	***	***	***
23	05/17/78	2	491.	66.	0.544	***	29.220	1.040	96.4	***
24	05/18/78	2	480.	67.	0.520	***	31.140	1.030	96.7	***
25	05/19/78	2	394.	67.	0.499	***	20.590	0.550	97.3	***
26	05/23/78	2	481.	85.	0.559	***	33.490	1.040	96.9	***
27	05/24/78	2	459.	70.	0.520	***	31.590	1.030	96.7	***
28	05/25/78	2	490.	71.	0.584	***	33.090	0.940	97.2	***
29	05/26/78	2	494.	63.	0.578	***	36.420	0.740	98.0	***
30A	05/29/78	2	290.	114.	0.561	***	***	***	***	***
30B	05/29/78	2	290.	104.	0.532	***	***	***	***	***
30C	05/29/78	2	290.	86.	0.507	***	***	***	***	***

TABLE 2

EMISSION DATA SUMMARY

AGMA TEST SITE C

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLK OUT PART LB/MKB	OC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
31A	05/29/78	2	276.	72.	0.380	***	***	***	***	***
31B	05/29/78	2	276.	87.	0.438	***	***	***	***	***
31C	05/29/78	2	276.	105.	0.456	***	***	***	***	***
32A	05/30/78	2	476.	50.	0.422	***	***	***	***	***
32B	05/30/78	2	476.	62.	0.479	***	***	***	***	***
32C	05/30/78	2	476.	73.	0.469	***	***	***	***	***
33A	05/30/78	2	478.	59.	0.452	***	***	***	***	***
33B	05/30/78	2	478.	70.	0.486	***	***	***	***	***
33C	05/30/78	2	476.	97.	0.591	***	***	***	***	***
34A	05/30/78	2	467.	66.	0.501	***	***	***	***	***
34B	05/30/78	2	467.	65.	0.526	***	***	***	***	***
34C	05/30/78	2	467.	68.	0.475	***	***	***	***	***
34D	05/30/78	2	467.	65.	0.526	***	***	***	***	***
35	05/31/78	2	292.	47.	0.421	***	15.160	0.360	97.6	***
36	06/01/78	2	482.	60.	0.507	***	8.570	0.520	93.9	***
40	06/02/78	2	499.	62.	0.483	***	6.150	0.470	92.4	***
41	06/07/78	3	268.	110.	0.491	***	16.190	0.540	96.7	***
42	06/09/78	3	447.	78.	0.384	***	28.000	1.070	96.2	***
43	06/13/78	3	352.	84.	0.473	***	20.290	0.690	96.6	***
44	06/15/78	2	474.	70.	0.532	1.877	***	***	***	***
45	06/17/78	2	468.	62.	0.517	1.554	***	***	***	***
46	06/20/78	1	447.	71.	0.595	3.555	***	***	***	***
47	06/29/78	1	**	83.	0.561	***	***	***	***	***
48A	06/29/78	1	408.	81.	0.568	***	***	***	***	***
48B	06/29/78	1	408.	75.	0.567	***	***	***	***	***
48C	06/29/78	1	408.	62.	0.541	***	***	***	***	***
49A	07/05/78	1	262.	138.	0.532	***	***	***	***	***
49B	07/05/78	1	262.	94.	0.479	***	***	***	***	***
49C	07/05/78	1	262.	70.	0.440	***	***	***	***	***
50A	07/05/78	1	262.	102.	0.511	***	***	***	***	***
50B	07/05/78	1	262.	70.	0.404	***	***	***	***	***
50C	07/05/78	1	262.	49.	0.308	***	***	***	***	***

TABLE 2 EMISSION DATA SUMMARY

ABMA TEST SITE D

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	DC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
02	07/28/78	1	277.	71.	0.280	***	***	***	***	***
03	08/03/78	1	263.	88.	0.307	***	***	0.360	***	***
04	08/15/78	1	205.	75.	0.521	***	0.660	0.560	15.2	30.0
05	08/16/78	1	337.	57.	0.303	***	0.830	0.570	31.3	23.0
06	08/18/78	1	247.	68.	0.251	***	0.690	0.370	46.4	12.0
07	08/22/78	1	246.	91.	0.346	***	0.790	0.490	38.0	12.0
08	08/23/78	1	219.	82.	0.506	***	0.790	0.330	58.2	12.0
09	08/29/78	1	139.	115.	0.353	***	0.730	0.460	37.0	7.0
10	08/31/78	1	244.	86.	0.318	***	0.710	0.350	50.7	12.0
11A	08/31/78	1	197.	97.	0.362	***	***	***	***	***
11B	08/31/78	1	197.	107.	0.391	***	***	***	***	***
11C	08/31/78	1	197.	135.	0.455	***	***	***	***	***
12	09/06/78	1	322.	64.	0.254	***	1.100	0.670	39.1	19.0
13	09/08/78	1	340.	53.	0.257	***	0.840	0.490	41.7	29.0
14	09/12/78	2	327.	53.	0.308	***	1.340	0.750	44.0	35.0
15	09/12/78	2	354.	56.	0.294	***	1.000	0.420	58.0	19.0
16	09/13/78	2	260.	67.	0.315	***	0.800	0.320	60.0	12.0
17	09/14/78	2	350.	50.	0.270	***	1.070	0.390	63.6	32.0
18	09/15/78	2	314.	60.	0.313	2.405	0.970	0.420	56.7	19.0
22	09/21/78	3	237.	91.	0.327	2.426	***	***	***	***
23	09/22/78	3	231.	95.	0.353	***	0.760	0.600	21.1	11.0

TABLE 2

EMISSION DATA SUMMARY

ABMA TEST SITE E

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLH OUT PART LB/MKB	DC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
03	11/18/78	1	274.	69.	0.509	***	2.960	0.310	89.5	34.0
04	11/20/78	1	519.	50.	0.574	***	4.970	0.200	96.0	27.0
05	11/21/78	1	406.	85.	0.651	***	6.190	0.270	95.6	20.0
06	12/12/78	1	454.	73.	0.623	***	2.060	0.340	83.5	17.0
07	12/13/78	1	504.	31.	0.496	***	5.230	1.820	65.2	45.0
08	12/15/78	1	458.	46.	0.500	***	4.490	0.190	95.8	38.0
09	12/16/78	1	400.	55.	0.502	***	3.980	0.640	83.9	33.0
10A	12/17/78	1	448.	55.	0.577	***	***	***	***	***
10B	12/17/78	1	448.	54.	0.549	***	***	***	***	***
10C	12/17/78	1	448.	87.	0.597	***	***	***	***	***
10D	12/17/78	1	448.	61.	0.575	***	***	***	***	***
10E	12/17/78	1	448.	63.	0.592	***	***	***	***	***
11	12/18/78	1	454.	43.	0.484	***	4.320	1.560	63.9	46.0
12	12/20/78	2	482.	37.	0.533	***	3.510	1.850	47.3	32.0
13	12/20/78	2	344.	74.	0.655	***	3.030	1.460	59.8	52.0
14	12/20/78	2	541.	22.	0.616	***	6.470	3.840	40.6	55.0
15	01/05/79	3	604.	38.	0.522	***	5.380	1.750	67.5	33.0
16	01/08/79	3	510.	62.	0.485	2.387	***	***	***	***
17	01/10/79	1	590.	40.	0.529	1.412	***	***	***	***
18A	01/12/79	1	468.	64.	0.487	***	***	***	***	***
18B	01/12/79	1	468.	72.	0.572	***	***	***	***	***
18C	01/12/79	1	468.	84.	0.592	***	***	***	***	***
18D	01/12/79	1	468.	75.	0.582	***	***	***	***	***
20	01/18/79	1	**	48.	0.550	***	4.790	2.410	49.7	40.0

TABLE 2

EMISSION DATA SUMMARY

ADMA TEST SITE F

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	DC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
02	12/18/78	1	506.	78.	0.538	1.568	***	***	***	***
03	12/18/78	1	506.	97.	0.581	1.401	***	***	***	***
04	12/18/78	1	506.	56.	0.439	1.778	***	***	***	***
05	12/19/78	1	341.	77.	0.412	1.756	5.080	***	***	8.0
06	12/20/78	1	342.	69.	0.401	2.015	***	***	***	***
07	12/20/78	1	342.	112.	0.563	2.184	***	***	***	***
08	12/20/78	1	342.	50.	0.523	2.108	***	***	***	***
09	12/20/78	1	342.	144.	0.602	2.145	***	***	***	***
10	01/04/79	1	691.	61.	0.474	1.981	***	***	***	***
11	01/05/79	1	701.	59.	0.563	2.209	***	***	***	***
12	01/05/79	1	701.	65.	0.541	2.105	***	***	***	***
13	01/05/79	1	701.	32.	0.367	2.103	***	***	***	***
14	01/05/79	1	701.	42.	0.421	2.209	***	***	***	***
15	01/08/79	1	666.	56.	0.540	1.693	5.930	1.330	77.6	2.9
16A	01/09/79	1	682.	54.	***	1.771	***	***	***	***
16B	01/09/79	1	682.	50.	***	1.881	***	***	***	***
16C	01/09/79	1	682.	63.	***	1.881	***	***	***	***
17	01/10/79	1	659.	45.	***	1.832	5.510	1.130	79.5	3.9
18	01/15/79	1	648.	34.	0.380	2.231	6.170	0.770	87.5	***
19	01/16/79	1	665.	37.	0.451	2.412	8.790	1.260	85.7	4.2
20	01/17/79	1	513.	63.	0.452	2.002	4.010	***	***	3.2
21	01/24/79	1	531.	58.	0.429	2.385	5.570	1.260	77.4	***
22	01/31/79	1	668.	38.	0.384	2.144	***	***	***	***
23A	02/01/79	1	685.	41.	0.396	1.956	5.240	1.000	80.9	***
23B	02/08/79	1	689.	37.	0.382	2.618	***	***	***	***
24	02/06/79	1	698.	30.	0.392	2.138	7.180	1.030	85.7	***
25	02/12/79	2	671.	61.	0.541	1.341	***	***	***	***
26	02/12/79	2	671.	44.	0.420	1.302	***	***	***	***
27	02/12/79	2	671.	39.	0.407	1.341	***	***	***	***
28	02/12/79	2	671.	23.	0.358	1.304	***	***	***	***
29	02/12/79	2	631.	29.	0.362	1.315	5.940	1.390	76.6	***
30	02/13/79	2	677.	39.	0.405	1.315	***	***	***	***
31	02/14/79	2	513.	81.	0.444	1.158	***	***	***	***

TABLE 2

EMISSION DATA SUMMARY

AGMA TEST SITE F

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	UC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
32	02/14/79	2	513.	112.	0.582	1.446	***	***	***	***
33	02/14/79	2	513.	58.	0.395	1.207	***	***	***	***
34	02/14/79	2	513.	34.	0.299	1.211	***	***	***	***
35	02/14/79	2	503.	67.	0.528	***	4.730	1.030	78.2	***

TABLE 2 EMISSION DATA SUMMARY PAGE 1

ABMA TEST SITE G

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	DC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
03	02/11/79	1	575.	67.	0.502	***	4.330	0.220	94.9	***
04	02/16/79	1	554.	94.	0.660	***	7.410	0.220	97.0	***
05	02/17/79	1	735.	48.	0.552	***	6.790	0.270	96.0	***
06	02/17/79	1	415.	96.	0.630	***	4.170	0.130	96.9	***
07	02/25/79	2	125.	205.	0.478	***	2.140	0.950	55.6	***
08	02/25/79	2	719.	43.	0.398	***	2.930	0.170	94.2	***
09	02/28/79	1	522.	89.	0.447	1.183	***	***	***	***
10	03/02/79	1	621.	82.	0.602	***	6.590	0.480	92.7	***
11A	03/03/79	1	563.	58.	0.546	***	***	***	***	***
11B	03/03/79	1	563.	53.	0.622	***	***	***	***	***
11C	03/03/79	1	563.	45.	0.486	***	***	***	***	***
11D	03/03/79	1	563.	38.	0.407	***	***	***	***	***
12A	03/03/79	1	710.	49.	0.568	***	***	***	***	***
12B	03/03/79	1	710.	46.	0.517	***	***	***	***	***
12C	03/03/79	1	710.	39.	0.493	***	***	***	***	***
12D	03/03/79	1	710.	36.	0.435	***	***	***	***	***
12E	03/03/79	1	710.	30.	0.413	***	***	***	***	***
15	03/16/79	1	632.	67.	0.621	1.035	***	***	***	***
16	03/17/79	1	114.	241.	0.527	***	2.270	0.930	59.0	***
17	03/17/79	1	706.	52.	0.530	***	5.860	0.360	93.9	***
18	03/18/79	3	702.	53.	0.582	***	4.780	0.320	93.3	***
19	03/18/79	3	120.	230.	0.513	***	2.060	0.500	75.7	***
20	03/21/79	3	561.	74.	0.536	1.028	***	***	***	***
22	03/23/79	3	595.	73.	0.563	***	4.720	0.330	93.0	***
23	03/24/79	3	546.	59.	0.577	***	4.570	0.320	93.0	***
24	03/24/79	3	565.	51.	0.454	***	4.000	0.260	93.5	***
25A	03/25/79	3	719.	38.	0.491	***	***	***	***	***
25B	03/25/79	3	719.	36.	0.529	***	***	***	***	***
25C	03/25/79	3	719.	31.	0.482	***	***	***	***	***
25D	03/25/79	3	719.	22.	0.404	***	***	***	***	***
26A	03/25/79	3	562.	59.	0.548	***	***	***	***	***
26B	03/25/79	3	562.	48.	0.475	***	***	***	***	***
26C	03/25/79	3	562.	38.	0.409	***	***	***	***	***
26D	03/25/79	3	562.	31.	0.362	***	***	***	***	***

TABLE 2

EMISSION DATA SUMMARY

ABMA TEST SITE H

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	DC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
01B	03/19/79	1	386.	91.	0.485	***	***	***	***	***
02A	03/20/79	1	422.	49.	0.364	2.937	***	***	***	***
02B	03/20/79	1	422.	62.	0.371	2.353	***	***	***	***
02C	03/20/79	1	422.	88.	0.494	2.764	***	***	***	***
02D	03/20/79	1	422.	73.	0.372	3.175	***	***	***	***
02E	03/20/79	1	422.	66.	0.420	3.599	***	***	***	***
02F	03/20/79	1	422.	53.	0.305	3.036	***	***	***	***
03	03/22/79	1	446.	58.	0.358	2.473	2.200	***	***	***
04A	03/23/79	1	219.	91.	0.385	***	***	***	***	***
04C	03/23/79	1	219.	72.	0.366	***	***	***	***	***
05	03/26/79	1	435.	76.	0.457	3.433	1.130	***	***	***
06	03/27/79	1	428.	97.	0.448	3.310	0.900	***	***	***
07A	03/28/79	1	332.	60.	0.279	4.937	***	***	***	***
07B	03/28/79	1	332.	141.	0.463	7.170	***	***	***	***
07C	03/28/79	1	332.	88.	0.423	6.220	***	***	***	***
07D	03/28/79	1	332.	32.	0.217	4.306	***	***	***	***
08	03/29/79	1	329.	60.	0.269	4.508	0.550	***	***	***
09	03/30/79	1	228.	114.	0.325	3.627	0.680	***	***	***
10A	03/30/79	1	223.	112.	0.333	3.430	***	***	***	***
10B	03/30/79	1	223.	141.	0.357	3.027	***	***	***	***
10C	03/30/79	1	223.	72.	0.330	3.130	***	***	***	***
10D	03/30/79	1	223.	92.	0.340	3.327	***	***	***	***
10E	03/30/79	1	223.	173.	0.385	3.265	***	***	***	***
11	04/04/79	1	439.	75.	0.479	3.332	***	***	***	***

TABLE 2 EMISSION DATA SUMMARY

ABMA TEST SITE I

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	DC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
02	04/30/79	1	371.	63.	0.213	***	1.760	***	***	***
03	05/01/79	1	391.	62.	0.395	***	1.000	***	***	***
04	05/01/79	1	379.	43.	0.307	***	0.900	***	***	***
05	05/02/79	1	310.	70.	0.288	***	0.950	***	***	***
06	05/08/79	1	374.	39.	0.246	***	***	***	***	***
07A	05/09/79	1	394.	50.	0.252	***	***	***	***	***
07B	05/09/79	1	394.	39.	0.285	***	***	***	***	***
07C	05/09/79	1	394.	30.	0.283	***	***	***	***	***
08A	05/09/79	1	273.	84.	0.343	***	***	***	***	***
08B	05/09/79	1	273.	66.	0.330	***	***	***	***	***
08C	05/09/79	1	273.	54.	0.329	***	***	***	***	***
08D	05/09/79	1	273.	45.	0.311	***	***	***	***	***
09	05/10/79	1	387.	37.	0.288	3.502	***	***	***	***
10	05/12/79	2	181.	116.	0.326	***	0.730	***	***	***
14	05/14/79	2	271.	88.	0.291	***	1.340	***	***	***
15	05/22/79	2	383.	54.	0.237	***	1.430	***	***	***
16A	05/23/79	2	385.	88.	0.288	***	***	***	***	***
16B	05/23/79	2	385.	68.	0.243	***	***	***	***	***
16C	05/23/79	2	385.	57.	0.221	***	***	***	***	***
16D	05/23/79	2	385.	44.	0.211	***	***	***	***	***
16E	05/23/79	2	385.	38.	0.201	***	***	***	***	***
18	05/23/79	2	385.	56.	0.255	1.827	***	***	***	***

TABLE 2 EMISSION DATA SUMMARY

ABMA TEST SITE J

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	DC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
02	06/04/79	1	298.	95.	0.415	***	0.780	0.190	75.6	***
03	06/05/79	1	403.	52.	0.316	***	***	***	***	***
04	06/06/79	1	403.	71.	0.353	***	***	***	***	***
05	06/12/79	1	414.	56.	0.418	***	1.440	0.230	84.0	***
06	06/13/79	2	398.	59.	0.329	***	0.700	0.180	74.3	***
07	06/14/79	1	343.	66.	0.377	***	0.460	0.170	63.0	***
08	06/15/79	2	295.	70.	0.270	***	0.570	0.110	80.7	***
09	06/16/79	2	200.	129.	0.455	***	0.620	0.190	69.4	***
13	06/19/79	1	413.	56.	0.294	***	***	***	***	***
14	06/20/79	1	392.	68.	0.391	***	0.980	0.220	77.6	***
15	06/28/79	2	379.	56.	0.315	1.882	***	***	***	***
16	06/30/79	1	373.	68.	0.451	2.902	***	***	***	***

TABLE 2

EMISSION DATA SUMMARY

ABMA TEST SITE K

TEST NO.	DATE	COAL	GRATE HEAT RELEASE KBTU/HR-FT2	EXCESS AIR %	NO LB/MKB	SO2 LB/MKB	BLR OUT PART LB/MKB	DC OUT PART LB/MKB	DUST COLL. EFFICIENCY %	STACK OPACITY %
02	10/13/79	1	201.	174.	0.313	***	0.740	0.190	74.3	5.0
03	10/15/79	1	301.	100.	0.392	***	0.800	0.230	71.2	***
04	10/16/79	1	405.	59.	0.310	***	0.760	0.150	80.3	5.0
05	10/24/79	1	386.	51.	0.286	***	0.760	0.160	78.9	10.0
06	10/24/79	1	378.	60.	0.319	***	0.660	0.130	80.3	12.0
07	10/25/79	1	399.	48.	0.295	***	0.850	0.130	84.7	10.0
08	10/26/79	1	428.	49.	0.321	***	0.640	0.110	82.8	***
09	10/27/79	1	185.	149.	0.304	***	0.480	0.140	70.8	5.0
10	10/29/79	1	311.	65.	0.528	***	0.710	0.120	83.1	***
11	10/30/79	1	435.	40.	0.316	***	0.570	0.120	78.9	***
12	11/06/79	2	242.	148.	0.417	***	1.250	0.240	80.8	8.0
13	11/07/79	2	325.	113.	0.312	***	2.060	0.200	90.3	5.0
14	11/07/79	2	408.	62.	0.385	***	2.200	0.160	92.7	5.0
15	11/08/79	3	379.	84.	0.277	***	1.130	0.150	86.7	5.0
16	11/09/79	3	394.	37.	0.272	***	1.230	0.140	88.6	20.0
17	11/10/79	3	177.	98.	0.290	***	0.700	0.140	80.0	***
18	11/12/79	1	332.	81.	0.285	1.136	***	***	***	5.0

GASEOUS EMISSION DATA

TABLE 3

ABMA TEST SITE A

TEST NO.	COAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
01	1	64.	4.9	***	180.	343.	**	768.	2.	**
02A	1	59.	4.3	***	86.	345.	**	**	**	**
02B	1	59.	3.6	***	126.	316.	**	**	**	**
02C	1	59.	2.7	***	266.	285.	**	**	**	**
02D	1	59.	1.7	***	1072.	256.	**	**	**	**
02E	1	59.	3.7	***	127.	302.	**	**	**	**
02F	1	59.	4.4	***	174.	325.	**	**	**	**
02G	1	59.	5.1	***	91.	358.	**	**	**	**
02H	1	61.	5.9	***	95.	400.	**	**	**	**
03	1	60.	4.1	***	219.	312.	**	**	**	**
04	1	72.	6.3	***	77.	497.	**	**	**	**
05	1	70.	4.1	***	536.	385.	**	**	**	**
06	1	68.	5.8	***	392.	414.	**	**	**	**
07A	1	68.	5.2	***	171.	349.	**	**	**	**
07B	1	68.	4.0	***	657.	365.	**	**	**	**
07C	1	68.	3.4	***	818.	327.	**	**	**	**
07D	1	68.	3.0	***	1050.	320.	**	**	**	**
07E	1	65.	5.0	***	137.	394.	**	749.	5.	**
08A	1	65.	4.8	***	141.	417.	**	304.	**	**
08B	1	61.	6.8	***	53.	451.	**	793.	3.	**
09	1	37.	4.9	***	81.	367.	**	**	**	**
10	1	41.	4.9	***	83.	554.	**	**	**	**
11A	1	41.	7.8	***	41.	490.	**	**	**	**
11B	1	41.	8.0	***	56.	506.	**	**	**	**
11C	1	41.	8.5	***	72.	541.	**	**	**	**
11D	1	41.	9.1	***	99.	584.	**	**	**	**
11E	1	41.	9.5	***	102.	597.	**	**	**	**
11F	1	45.	7.5	***	47.	448.	**	790.	5.	**
12	1	77.	6.1	***	46.	414.	**	**	**	**
13A	1	77.	5.2	***	912.	502.	**	**	**	**
13B	1	72.	3.7	***	2000.	406.	**	**	**	**
14A	1	72.	5.4	***	150.	455.	**	**	**	**
14B	1	73.	5.6	***	95.	440.	**	**	**	**
15	1	59.	4.5	***	264.	428.	**	**	**	**
16	2	52.	6.1	***	104.	473.	**	**	**	**
17A	2	52.	7.3	***	66.	416.	**	**	10.	**
17B	1	46.	7.8	***	77.	428.	**	886.	5.	**
18A	1	46.	7.4	***	62.	386.	**	313.	**	**
18B	1	44.	7.1	***	52.	409.	**	**	11.	**
19	2	42.	6.8	***	48.	386.	**	1086.	**	**
20	2	82.	5.3	***	44.	306.	**	**	**	**
21	2	83.	4.5	***	998.	392.	**	**	**	**
22	2	59.	4.1	***	1600.	362.	**	**	**	**
23	2	59.	4.4	***	104.	308.	**	**	**	**
24	2	74.	4.8	***	150.	370.	**	**	**	**
25A	2	74.	5.0	***	450.	439.	**	**	**	**
25B	2	70.	4.4	***	802.	423.	**	**	**	**
26A	2	74.	5.1	***	413.	446.	**	**	**	**
26B	2	81.	4.6	***	405.	416.	**	**	**	**
27	2		4.2	***	1022.	388.	**	**	**	**

TABLE 3 GASEOUS EMISSION DATA PAGE 2

ABMA TEST SITE A

TEST NO.	COAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
28	2	84.	3.9	***	1076.	408.	**	**	**	**
29	2	85.	3.8	***	480.	398.	**	**	**	**
30	2	80.	4.0	***	383.	460.	**	**	**	**
31A	2	53.	2.6	***	181.	196.	**	**	**	**
31B	2	53.	2.6	***	293.	196.	**	**	**	**
31C	2	53.	2.6	***	117.	201.	**	**	**	**
31D	2	53.	3.6	***	233.	243.	**	**	**	**
31E	2	53.	3.5	***	231.	244.	**	**	**	**
31F	2	53.	3.5	***	231.	239.	**	**	**	**
32	2	83.	5.2	***	219.	497.	**	**	**	**
34A	3	76.	5.9	***	300.	353.	**	504.	10.	**
34B	3	76.	6.5	***	483.	315.	**	479.	12.	**
35A	3	76.	6.0	***	313.	394.	**	410.	7.	**
35B	3	76.	6.4	***	243.	382.	**	353.	2.	**
36	3	80.	4.7	***	2000.	344.	**	**	**	**
37	3	86.	5.1	***	276.	347.	**	**	**	**
38	3	59.	4.7	***	61.	313.	**	**	**	**
39	3	60.	4.9	***	670.	335.	**	**	**	**
40	2	66.	6.9	***	108.	546.	**	**	**	**

TABLE 3

GASEOUS EMISSION DATA

AGMA TEST SITE B

TEST NO.	COAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
01	1	41.	9.9	9.4	**	301.	**	**	**	**
02	1	28.	11.3	8.0	**	333.	**	**	**	**
03	2	27.	10.9	8.2	245.	292.	**	**	**	**
04	1	47.	8.0	11.4	56.	243.	**	**	**	**
05	2	47.	6.6	12.1	45.	203.	**	**	**	**
06	3	75.	5.2	13.7	32.	214.	**	**	**	**
07	3	76.	4.4	14.3	139.	197.	**	**	**	**
08	1	75.	10.2	8.9	25.	306.	**	**	**	**
09	1	73.	6.9	12.1	120.	237.	**	**	**	**
10A	3	31.	11.3	8.4	295.	351.	**	**	**	**
10B	3	31.	10.0	9.0	229.	311.	**	**	**	**
10C	3	31.	8.8	10.1	148.	273.	**	**	**	**
10D	3	31.	14.0	5.8	601.	437.	**	**	**	**
11	4	48.	8.8	10.8	96.	339.	**	**	**	**
12	4	49.	8.0	11.8	36.	280.	**	**	**	**
13A	4	72.	7.5	11.6	53.	267.	**	**	**	**
13B	4	72.	5.9	13.0	36.	226.	**	**	**	**
13C	4	72.	4.7	13.9	28.	194.	**	**	**	**
14A	4	92.	5.8	13.3	24.	261.	**	**	**	**
14B	4	92.	4.6	14.5	22.	258.	**	**	**	**
14C	4	92.	3.4	15.4	125.	225.	**	**	**	**
14D	4	92.	6.4	12.8	54.	296.	**	**	**	**
15	4	87.	4.3	14.7	27.	215.	**	**	**	**
16	4	89.	7.0	12.1	48.	294.	**	**	**	**
17	4	88.	6.6	12.4	47.	320.	**	**	**	**
18	3	74.	6.5	12.9	163.	267.	**	**	**	**
19	1	75.	4.7	14.4	35.	239.	**	**	**	**
20	1	73.	6.8	12.4	35.	332.	**	**	**	**
21	2	73.	6.8	12.4	34.	310.	**	**	**	**
22	2	72.	6.3	12.9	103.	219.	**	**	**	**
23	1	99.	5.5	13.6	41.	254.	**	**	**	**
24	3	99.	5.1	13.9	72.	256.	**	**	**	**
25	1	100.	5.3	13.7	60.	317.	**	**	**	**
26A	2	99.	5.3	13.7	83.	287.	**	**	**	**
26C	2	99.	4.4	14.7	62.	252.	**	**	**	**
27	1	79.	6.4	12.6	44.	311.	**	**	**	**
28	1	61.	6.5	12.7	47.	305.	**	**	**	**
29	1	79.	6.6	12.5	40.	259.	**	**	**	**
30	2	79.	6.0	13.0	46.	232.	**	**	**	**
31	1	77.	6.0	13.0	27.	259.	**	**	**	**
32	2	78.	5.9	13.1	31.	235.	**	**	**	**
33	3	79.	6.1	12.9	47.	241.	**	**	**	**

TABLE 5 GASEOUS EMISSION DATA PAGE 1

ABMA TEST SITE C

TEST NO.	COAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
01	1	99.	7.3	12.6	43.	274.	**	**	**	**
05A	1	95.	9.3	9.7	62.	378.	**	**	**	**
05B	1	97.	8.0	11.2	48.	360.	**	**	**	**
05C	1	97.	7.2	11.8	45.	337.	**	**	**	**
06A	1	92.	8.8	10.2	48.	303.	**	**	**	**
06B	1	92.	10.1	9.2	132.	338.	**	**	**	**
06C	1	92.	11.5	7.8	171.	418.	**	**	**	**
07A	1	93.	9.2	10.1	57.	316.	**	**	**	**
07B	1	93.	9.2	10.2	48.	321.	**	**	**	**
07C	1	93.	9.6	10.2	55.	308.	**	**	**	**
07D	1	93.	9.2	10.2	57.	290.	**	**	**	**
08	1	69.	10.2	8.8	65.	353.	**	**	**	**
09	1	69.	8.9	10.5	66.	288.	**	**	**	**
10	1	93.	9.1	10.1	55.	356.	**	**	**	**
11	1	93.	9.1	10.0	53.	333.	**	**	**	**
12	1	93.	8.9	10.1	53.	273.	**	**	**	**
13	1	91.	8.9	10.3	103.	230.	**	**	**	**
14	1	93.	9.2	10.0	49.	326.	**	**	**	**
15	1	91.	9.1	10.1	53.	328.	**	**	**	**
16	1	93.	8.7	10.4	37.	319.	**	**	**	**
17A	1	76.	10.4	8.9	37.	282.	**	**	**	**
17B	1	76.	9.4	10.1	23.	244.	**	**	**	**
17C	1	76.	8.3	11.0	21.	227.	**	**	**	**
18A	1	76.	9.8	10.0	37.	300.	**	**	**	**
18B	1	76.	8.6	11.0	32.	233.	**	**	**	**
18C	1	76.	7.4	12.0	26.	212.	**	**	**	**
19	1	92.	8.7	10.4	44.	326.	**	**	**	**
20	1	55.	11.0	8.1	68.	331.	**	**	**	**
21A	2	77.	10.3	9.2	296.	355.	**	**	**	**
21B	2	77.	9.2	10.0	168.	352.	**	**	**	**
21C	2	77.	8.1	11.6	154.	350.	**	**	**	**
22A	2	77.	8.8	11.2	259.	311.	**	**	**	**
22B	2	77.	7.2	12.8	144.	288.	**	**	**	**
22C	2	77.	10.0	9.4	361.	361.	**	**	**	**
23	2	100.	8.6	10.9	311.	387.	**	**	**	**
24	2	98.	8.7	10.6	488.	372.	**	**	**	**
25	2	78.	8.6	11.2	173.	358.	**	**	**	**
26	2	99.	9.9	9.8	365.	394.	**	**	**	**
27	2	100.	8.9	10.5	267.	387.	**	**	**	**
28	2	99.	9.0	10.6	567.	395.	**	**	**	**
29	2	100.	8.4	10.9	323.	408.	**	**	**	**
30A	2	59.	11.5	8.2	232.	400.	**	**	**	**
30B	2	59.	11.0	8.6	198.	379.	**	**	**	**
30C	2	59.	10.0	9.6	151.	361.	**	**	**	**
31A	2	55.	9.0	10.8	97.	271.	**	**	**	**
31B	2	55.	10.0	10.0	151.	312.	**	**	**	**
31C	2	55.	11.0	8.9	199.	325.	**	**	**	**
32A	2	96.	7.2	12.2	163.	301.	**	**	**	**
32B	2	96.	8.3	11.2	249.	341.	**	**	**	**
32C	2	96.	9.1	10.6	334.	334.	**	**	**	**

TABLE 5 GASEOUS EMISSION DATA PAGE 2

AGMA TEST SITE C

TEST NO.	TRIAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
33A	2	96.	8.1	10.6	206.	322.	**	**	**	**
33B	2	96.	9.0	10.0	421.	346.	**	**	**	**
33C	2	96.	10.7	8.6	702.	421.	**	**	**	**
34A	2	95.	8.6	11.0	327.	357.	**	**	**	**
34B	2	95.	8.5	11.0	296.	375.	**	**	**	**
34C	2	95.	8.4	11.5	294.	337.	**	**	**	**
34D	2	95.	8.5	11.5	281.	375.	**	**	**	**
35	2	55.	10.6	9.0	182.	300.	**	**	**	**
36	2	98.	8.1	11.4	247.	357.	**	**	**	**
40	2	102.	8.3	11.3	280.	341.	**	**	**	**
41	3	58.	11.3	8.3	57.	383.	**	**	**	**
42	3	99.	9.4	10.6	132.	289.	**	**	**	**
43	3	78.	9.8	10.4	45.	374.	**	**	**	**
44	2	97.	8.9	10.9	263.	385.	**	969.	7.	**
45	2	97.	8.3	11.1	272.	375.	**	805.	5.	**
46	1	99.	9.0	10.2	57.	436.	**	1863.	8.	**
47	1	93.	9.8	9.5	44.	407.	**	**	**	**
48A	1	93.	9.7	9.7	35.	398.	**	**	**	**
48B	1	93.	9.3	10.1	33.	397.	**	**	**	**
48C	1	93.	8.3	10.9	61.	379.	**	**	**	**
49A	1	58.	12.5	7.2	139.	373.	**	**	**	**
49B	1	58.	10.5	8.6	52.	336.	**	**	**	**
49C	1	58.	9.0	9.8	30.	308.	**	**	**	**
50A	1	58.	10.9	8.8	72.	358.	**	**	**	**
50B	1	58.	8.9	10.3	67.	283.	**	**	**	**
50C	1	58.	7.2	11.8	120.	216.	**	**	**	**

TABLE 3 GASEOUS EMISSION DATA PAGE 1

ABMA TEST SITE D

TEST NO.	COAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
01	1	72.	8.5	10.9	112.	183.	**	**	**	**
02	1	73.	9.0	10.2	**	206.	**	**	**	**
03	1	69.	10.1	9.3	108.	225.	**	**	**	16.
04	1	64.	9.3	9.8	24.	235.	**	**	**	**
05	1	86.	7.9	11.2	89.	222.	**	**	**	**
06	1	65.	8.7	10.9	87.	164.	1.	**	**	**
07	1	63.	10.2	9.9	29.	255.	**	**	**	**
08	1	66.	9.7	10.0	57.	226.	**	**	**	**
09	1	45.	11.5	8.5	56.	262.	**	**	**	**
10	1	63.	9.9	10.3	61.	233.	**	**	**	**
11A	1	52.	10.6	9.1	120.	266.	**	**	**	**
11B	1	52.	11.1	8.7	55.	287.	**	**	**	**
11C	1	52.	12.3	8.0	83.	334.	**	**	**	**
12	1	87.	6.4	11.4	321.	168.	**	**	**	**
13	1	89.	7.5	12.0	1225.	168.	2.	**	**	**
14	2	87.	7.5	12.2	618.	226.	**	**	**	**
15	2	88.	7.8	11.6	39.	217.	**	**	**	**
16	2	64.	8.7	10.8	25.	234.	**	**	**	**
17	2	87.	7.3	12.0	885.	199.	**	**	**	**
18	2	79.	8.1	11.2	34.	230.	**	1271.	**	**
22	3	59.	10.2	10.0	29.	243.	**	1283.	10.	**
23	3	61.	10.4	9.9	19.	260.	**	**	**	**

TABLE 3 GASEOUS EMISSION DATA PAGE 1

ABMA TEST SITE E

TEST NO.	COAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
02	1	61.	7.6	12.0	81.	480.	**	**	**	**
03	1	46.	8.8	11.1	100.	372.	**	**	**	**
04	1	73.	7.2	12.5	38.	421.	**	**	**	**
05	1	62.	9.9	9.7	83.	477.	**	**	**	**
06	1	65.	9.0	11.7	62.	456.	**	**	**	**
07	1	67.	5.2	13.9	147.	367.	**	**	**	**
08	1	61.	6.8	12.5	**	367.	**	**	**	**
09	1	57.	7.7	11.6	**	368.	**	**	**	**
10A	1	61.	7.7	11.4	**	424.	**	**	**	**
10B	1	61.	7.6	11.6	**	404.	**	**	**	**
10C	1	61.	10.0	9.9	**	439.	**	**	**	**
10D	1	61.	8.2	11.1	**	423.	**	**	**	**
10E	1	61.	8.3	11.3	**	435.	**	**	**	**
11	1	62.	6.5	12.9	**	357.	**	**	**	**
12	2	65.	5.9	12.9	**	393.	**	**	**	**
13	2	48.	9.2	10.0	**	483.	**	**	**	**
14	2	69.	3.9	14.5	**	454.	**	**	**	**
15	3	70.	5.9	13.5	**	385.	**	**	**	**
16	3	62.	8.3	11.0	**	360.	**	1268.	5.	**
17	1	62.	8.2	13.4	**	389.	**	742.	4.	**
18A	1	66.	8.4	11.2	**	358.	**	**	**	**
18B	1	66.	9.0	10.6	**	421.	**	**	**	**
18C	1	66.	9.8	10.0	**	435.	**	**	**	**
18D	1	66.	9.3	10.0	**	428.	**	**	**	**
20	1	63.	7.0	12.3	**	405.	**	**	**	**

TABLE 3

GASEOUS EMISSION DATA

AGMA TEST SITE F

TEST NO.	COAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
01	1	75.	8.9	10.0	146.	343.	1.	944.	**	**
02	1	75.	9.5	9.6	173.	395.	5.	826.	**	14.
03	1	75.	10.7	8.2	233.	426.	7.	738.	**	18.
04	1	75.	7.8	11.6	137.	322.	3.	937.	**	28.
05	1	54.	9.4	10.0	175.	297.	3.	908.	**	**
06	1	53.	8.8	10.6	112.	294.	3.	1062.	**	**
07	1	53.	11.3	9.0	252.	369.	11.	1151.	**	**
08	1	53.	7.2	12.5	77.	237.	6.	1111.	**	**
09	1	53.	12.7	7.3	420.	442.	8.	1130.	**	**
10	1	98.	8.2	11.1	252.	348.	**	1044.	**	**
11	1	99.	8.1	10.8	231.	413.	7.	1164.	**	**
12	1	99.	8.5	11.0	222.	397.	3.	1109.	**	**
13	1	99.	5.4	12.8	612.	269.	2.	1108.	**	12.
14	1	99.	6.4	12.8	251.	309.	**	1164.	**	12.
15	1	99.	7.8	11.1	250.	384.	1.	966.	**	1.
16A	1	100.	7.6	12.0	228.	**	**	933.	**	13.
16B	1	100.	7.2	12.8	163.	**	**	991.	**	13.
16C	1	100.	8.3	11.8	378.	**	**	991.	**	**
17	1	99.	6.7	12.5	382.	**	**	953.	**	9.
18	1	99.	5.5	13.4	429.	263.	5.	1110.	**	5.
19	1	99.	5.9	12.6	607.	309.	5.	1186.	**	16.
20	1	75.	8.4	10.7	100.	342.	3.	1088.	**	15.
21	1	76.	8.0	11.0	107.	314.	2.	1252.	**	27.
22	1	99.	6.0	13.2	352.	281.	1.	1126.	**	16.
23A	1	100.	6.3	13.2	221.	298.	2.	1058.	**	12.
23B	1	99.	5.9	12.5	186.	282.	3.	1387.	**	**
24	1	102.	5.0	14.5	549.	289.	**	1131.	**	**
25	2	99.	8.3	10.2	172.	398.	26.	708.	**	**
26	2	99.	6.7	12.1	240.	309.	3.	687.	**	**
27	2	99.	6.1	12.3	188.	299.	2.	708.	**	**
28	2	99.	4.2	13.5	513.	263.	8.	688.	**	**
29	2	101.	5.0	13.3	361.	266.	1.	693.	**	**
30	2	102.	6.0	13.8	267.	298.	**	695.	**	5.
31	2	75.	9.7	9.3	130.	326.	4.	611.	**	14.
32	2	75.	11.4	8.2	216.	428.	4.	763.	**	8.
33	2	75.	7.9	11.5	92.	290.	**	637.	**	14.
34	2	75.	5.5	13.6	113.	220.	1.	639.	**	10.
35	2	76.	8.7	10.7	107.	380.	**	**	**	**

TABLE 3

GASEOUS EMISSION DATA

ABMA TEST SITE G

TEST NO.	COAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
02	1	85.	8.9	10.2	**	321.	**	**	**	**
03	1	80.	8.7	10.5	**	380.	**	**	**	**
04	1	77.	10.4	9.4	**	486.	**	**	**	**
05	1	102.	7.0	12.0	**	380.	**	**	**	**
06	1	57.	10.5	9.4	**	478.	**	**	**	**
07	2	17.	14.6	4.4	**	364.	**	**	**	**
08	2	100.	6.6	11.6	**	306.	**	**	**	**
09	1	72.	10.2	9.0	**	330.	**	622.	5.	**
10	1	86.	9.7	9.8	**	442.	3.	**	**	37.
11A	1	78.	8.0	11.0	**	402.	**	**	**	19.
11B	1	78.	7.6	11.0	**	458.	**	**	**	20.
11C	1	78.	6.7	12.2	**	358.	**	**	**	23.
11D	1	78.	6.0	12.8	**	300.	**	**	**	24.
12A	1	98.	7.2	11.6	**	418.	**	**	**	39.
12B	1	98.	6.8	12.2	**	381.	**	**	**	41.
12C	1	98.	6.1	12.4	**	363.	**	**	**	35.
12D	1	98.	5.8	12.4	**	320.	**	**	**	38.
12E	1	98.	5.0	13.2	**	304.	**	**	**	39.
15	1	87.	8.7	10.6	**	457.	**	544.	3.	**
16	1	16.	15.2	4.6	**	391.	**	**	**	**
17	1	98.	7.4	11.5	**	397.	**	**	**	**
18	3	97.	7.5	11.6	**	415.	7.	**	**	**
19	3	17.	15.1	4.1	**	381.	**	**	**	**
20	3	78.	9.2	10.4	**	396.	**	540.	5.	**
22	3	82.	9.1	10.3	**	414.	**	**	**	**
23	3	76.	8.0	11.2	**	423.	**	**	**	**
24	3	78.	7.3	11.7	**	336.	**	**	**	**
25A	3	100.	6.0	12.8	**	360.	**	**	**	**
25B	3	100.	5.7	13.2	**	388.	**	**	**	**
25C	3	100.	5.2	13.2	**	353.	**	**	**	**
25D	3	100.	4.0	14.4	**	296.	**	**	**	**
26A	3	78.	8.0	11.4	**	402.	**	**	**	**
26B	3	78.	7.0	12.2	**	348.	**	**	**	**
26C	3	78.	6.0	13.2	**	300.	**	**	**	**
26D	3	78.	5.2	13.7	**	265.	**	**	**	**

TABLE 3 GASEOUS EMISSION DATA PAGE 1

ABMA TEST SITE H

TEST NO.	COAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
01A	1	88.	9.2	9.2	153.	305.	**	**	**	**
01B	1	88.	10.5	7.6	239.	360.	**	**	**	**
02A	1	96.	7.2	11.0	163.	270.	**	1565.	**	**
02B	1	96.	8.4	9.6	96.	275.	**	1254.	**	**
02C	1	96.	10.3	7.9	274.	367.	**	1473.	**	**
02D	1	96.	9.3	8.9	196.	276.	4.	1692.	**	**
02E	1	96.	8.8	8.8	162.	312.	**	1918.	**	**
02F	1	96.	7.7	9.7	7.	226.	**	1618.	**	**
03	1	102.	8.0	10.8	513.	274.	13.	1359.	**	**
04A	1	50.	10.5	7.2	51.	286.	**	**	**	**
04C	1	50.	9.1	9.6	30.	272.	**	**	**	**
05	1	99.	9.4	9.2	41.	339.	1.	1830.	**	5.
06	1	97.	10.6	9.1	69.	331.	9.	1754.	**	35.
07A	1	76.	6.2	10.3	56.	207.	1.	2631.	**	29.
07B	1	76.	12.8	5.7	340.	344.	10.	3821.	**	132.
07C	1	76.	10.1	9.4	99.	314.	2.	3315.	**	99.
07D	1	76.	5.3	13.2	665.	161.	**	2295.	**	64.
08	1	75.	8.2	10.3	76.	196.	**	2357.	**	68.
09	1	52.	11.6	7.3	148.	244.	1.	1958.	**	94.
10A	1	51.	11.5	7.4	95.	247.	9.	1828.	**	133.
10B	1	51.	12.8	5.7	265.	265.	**	1613.	**	113.
10C	1	51.	9.2	9.2	63.	245.	**	1668.	**	76.
10D	1	51.	10.4	8.6	85.	252.	7.	1773.	**	82.
10E	1	51.	13.7	5.8	443.	286.	**	1740.	**	127.
11	1	100.	9.4	9.2	197.	353.	**	1765.	**	112.

TABLE 3 GASEOUS EMISSION DATA PAGE 1

ABMA TEST SITE 1

TEST NO.	COAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
01	1	50.	11.8	7.6	**	179.	**	**	**	**
02	1	98.	8.3	11.3	**	157.	**	**	**	**
03	1	103.	8.3	11.0	**	294.	**	**	**	**
04	1	100.	6.6	11.6	**	225.	**	**	**	**
05	1	82.	8.9	10.2	**	212.	**	**	**	**
06	1	98.	6.1	12.5	**	185.	**	**	**	**
07A	1	104.	7.2	12.1	**	185.	**	**	**	**
07B	1	104.	6.1	12.7	**	210.	**	**	**	**
07C	1	104.	5.0	13.5	**	208.	**	**	**	**
08A	1	72.	9.9	9.5	**	252.	**	**	**	**
08B	1	72.	8.6	10.8	**	243.	**	**	**	**
08C	1	72.	7.6	11.3	**	242.	**	**	**	**
08D	1	72.	6.8	11.9	**	229.	**	**	**	**
09	1	102.	5.9	12.9	**	217.	**	1865.	27.	**
10	2	48.	11.6	8.0	**	245.	**	**	**	**
14	2	71.	10.1	9.3	**	213.	**	**	**	**
15	2	101.	7.6	11.7	**	175.	**	**	**	**
16A	2	102.	10.1	9.3	**	213.	**	**	**	**
16B	2	102.	8.7	11.5	**	180.	**	**	**	**
16C	2	102.	7.8	12.2	**	164.	**	**	**	**
16D	2	102.	6.6	13.0	**	156.	**	**	**	**
16E	2	102.	5.9	13.6	**	149.	**	**	**	**
18	2	101.	7.8	11.0	**	188.	**	962.	6.	**

TABLE 3 GASEOUS EMISSION DATA PAGE 1

ABMA TEST SITE J

TEST NO.	COAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
01	1	48.	10.2	6.7	**	291.	**	**	**	**
02	1	74.	10.6	8.1	**	304.	**	**	**	107.
03	1	100.	7.5	10.4	**	231.	**	**	**	80.
04	1	100.	9.1	9.0	**	258.	**	**	**	**
05	1	103.	7.9	10.2	**	287.	**	**	**	**
06	2	99.	8.1	10.1	**	247.	**	**	**	**
07	1	85.	8.7	9.6	**	276.	**	**	**	**
08	2	73.	9.0	9.4	**	203.	**	**	**	**
09	2	50.	12.2	7.0	**	306.	**	**	**	**
13	1	102.	7.9	10.1	**	206.	**	**	**	**
14	1	97.	8.8	9.9	**	280.	**	**	**	**
15	2	94.	7.9	9.9	**	236.	**	1008.	5.	**
16	1	93.	8.9	8.9	**	320.	**	1468.	12.	**

TABLE 5 GASEOUS EMISSION DATA PAGE 1

ABMA TEST SITE K

TEST NO.	COAL	LOAD %	O2 %DRY	CO2 % DRY	CO PPM DRY	NO PPM DRY	NO2 PPM WET	SO2 PPM DRY	SO3 PPM DRY	HC PPM WET
01	1	97.	8.8	9.6	537.	240.	**	**	**	**
02	1	50.	13.7	6.0	339.	226.	**	**	**	**
03	1	71.	10.9	8.0	222.	290.	**	**	**	**
04	1	100.	8.2	9.7	275.	228.	2.	**	**	**
05	1	96.	7.5	10.0	208.	214.	**	**	**	**
06	1	95.	8.3	9.6	70.	229.	**	**	**	**
07	1	101.	7.2	10.6	126.	214.	**	**	**	**
08	1	100.	7.3	10.4	105.	236.	**	**	**	**
09	1	41.	13.0	6.1	187.	223.	**	**	**	**
10	1	74.	10.1	8.1	380.	394.	**	**	**	**
11	1	102.	6.4	10.9	182.	235.	**	**	**	**
12	2	59.	12.9	6.7	318.	302.	**	**	**	**
13	2	77.	11.6	7.0	479.	224.	**	**	**	**
14	2	101.	8.5	9.1	313.	261.	5.	**	**	**
15	3	73.	10.0	8.4	237.	200.	**	**	**	**
16	3	102.	6.0	11.1	446.	200.	**	**	**	**
17	3	56.	10.8	7.7	182.	209.	**	**	**	**
18	1	78.	9.8	8.6	**	209.	**	598.	1.	**

TABLE 4

PARTICULATE EMISSIONS DATA

ABMA TEST SITE A

BOILER OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
21	2	590.	4.5	12.12	8.74	3.38	3683.	34.21
22	2	600.	4.1	16.63	9.71	6.92	5144.	36.96
23	2	423.	4.4	11.67	5.10	6.57	2543.	23.68
24	2	423.	4.8	8.43	5.13	3.30	1837.	24.92
26A	2	507.	5.1	9.77	5.11	4.66	2552.	29.95
28	2	603.	3.9	20.48	13.48	7.00	6364.	37.32
29	2	615.	3.8	15.41	8.41	7.00	4865.	35.95
34A	3	545.	5.9	11.89	***	***	4254.	32.15
35A	3	545.	6.0	20.48	***	***	5755.	34.65
36	3	576.	4.7	18.51	11.12	7.39	5500.	30.21
37	3	622.	5.1	22.54	14.79	7.75	7227.	32.11
38	3	423.	4.7	6.29	3.86	2.43	1371.	22.88
39	3	432.	4.9	13.26	6.26	7.00	2955.	22.36

DUST COLLECTOR OUTLET

03	1	437.	4.1	0.58	0.15	0.43	131.	33.25
04	1	432.	6.3	0.65	0.19	0.46	145.	37.34
05	1	521.	4.1	0.66	0.25	0.41	177.	38.54
06	1	504.	5.8	0.95	0.37	0.58	247.	41.95
10	1	264.	9.9	0.54	0.11	0.43	74.	29.85
14A	1	521.	5.4	0.66	***	***	177.	42.05
15	1	528.	4.5	0.57	0.21	0.36	155.	41.16
16	2	428.	6.1	0.51	0.11	0.40	112.	37.52
26B	2	531.	4.6	0.60	0.18	0.42	164.	45.78

TABLE 4

PARTICULATE EMISSIONS DATA

ABMA TEST SITE B

BOILER OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
02	1	235.	11.3	6.57	3.89	2.68	572.	16.37
03	2	238.	10.9	8.88	3.85	5.03	783.	16.51
04	1	385.	8.0	9.65	5.33	4.32	1374.	19.71
06	3	571.	5.2	11.65	6.97	4.68	2461.	27.23
07	3	693.	4.4	10.28	6.95	3.33	2635.	25.97
08	1	571.	10.2	15.51	9.26	6.25	3274.	31.95
09	1	592.	6.9	8.16	5.03	3.13	1787.	25.71
11	4	377.	8.8	7.21	4.61	2.60	1006.	22.25
12	4	400.	8.0	9.57	5.99	3.58	1417.	18.96
15	4	675.	4.3	12.53	8.65	3.88	3129.	27.30
16	4	675.	7.0	14.63	10.96	3.67	3652.	37.52
17	4	655.	6.6	10.66	6.69	3.97	2582.	34.72
18	3	565.	6.5	12.76	8.19	4.57	2667.	28.05
19	1	564.	4.7	10.53	6.53	4.00	2197.	26.13
20	1	548.	6.8	10.81	7.04	3.77	2191.	28.16
21	2	557.	6.8	9.25	5.11	4.14	1907.	29.14
22	2	564.	6.3	12.27	6.54	5.73	2558.	26.77
23	1	764.	5.5	9.59	5.84	3.75	2711.	39.80
24	3	754.	5.1	13.68	7.68	6.20	3874.	34.35
25	1	791.	5.3	15.75	7.40	8.35	4608.	37.61
26A	2	771.	5.3	12.67	7.23	5.44	3616.	30.26
27	1	576.	6.4	11.75	6.73	5.02	2502.	29.64
28	1	601.	6.5	9.98	7.02	2.96	2219.	30.95

DUST COLLECTOR OUTLET

03	2	238.	10.9	0.54	***	***	48.	20.04
04	1	385.	8.0	0.45	***	***	64.	24.39
06	3	571.	5.2	0.47	0.24	0.23	99.	32.11
07	3	693.	4.4	0.76	0.17	0.59	195.	31.70
08	1	571.	10.2	0.63	0.13	0.70	175.	39.23
09	1	592.	6.9	0.52	0.11	0.41	114.	32.11
11	4	377.	8.8	0.48	0.16	0.32	67.	25.11
12	4	400.	8.0	0.50	0.11	0.38	74.	24.62
17	4	655.	6.6	0.47	0.11	0.36	114.	41.02
18	3	565.	6.5	0.81	0.18	0.63	169.	31.81
19	1	564.	4.7	0.56	0.16	0.40	117.	30.28
20	1	548.	6.8	0.56	0.16	0.40	114.	33.82
21	2	557.	6.8	0.62	0.16	0.46	128.	34.06
22	2	564.	6.3	0.82	0.24	0.58	171.	31.93
23	1	764.	5.5	0.49	0.13	0.36	139.	44.29
24	3	754.	5.1	3.53	1.87	1.66	985.	42.56
25	1	791.	5.3	0.60	0.15	0.45	176.	43.72
26A	2	771.	5.3	0.64	0.17	0.47	183.	38.60
27	1	576.	6.4	0.59	0.17	0.42	126.	36.12
28	1	601.	6.5	0.34	0.10	0.24	76.	35.60

TABLE 4 PARTICULATE EMISSIONS DATA PAGE 1

ABMA TEST SITE C

BOILER OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
08	1	288.	10.2	13.09	3.17	9.92	1940.	36.87
09	1	397.	8.9	25.00	***	***	5117.	37.49
10	1	451.	9.1	6.02	***	***	1400.	38.31
11	1	439.	9.1	7.00	4.00	3.00	1586.	39.19
12	1	432.	8.9	19.02	9.09	9.93	4239.	39.57
13	1	400.	8.9	21.11	6.50	14.61	4348.	36.17
14	1	431.	9.2	20.68	5.09	15.79	4639.	39.81
15	1	425.	9.1	22.63	10.41	12.22	4957.	36.18
16	1	417.	8.7	23.66	13.34	10.52	5131.	40.20
19	1	417.	8.7	25.14	10.46	14.68	5410.	39.71
20	1	274.	11.0	13.23	4.00	9.23	1867.	29.78
23	2	491.	8.6	29.22	2.54	26.68	7391.	47.58
24	2	480.	8.7	31.14	***	***	7699.	46.92
25	2	394.	8.6	20.39	1.88	18.51	4139.	34.88
26	2	481.	9.9	33.99	4.11	29.88	8424.	47.23
27	2	459.	8.9	31.59	3.70	27.89	7478.	45.81
28	2	490.	9.0	33.09	2.35	30.74	8364.	47.29
29	2	494.	8.4	36.42	3.06	33.36	9281.	47.93
35	2	292.	10.6	15.16	0.61	14.55	2282.	28.58
36	2	482.	8.1	8.57	***	***	2127.	45.84
40	2	499.	8.3	6.15	1.64	4.51	1583.	47.82
41	3	268.	11.3	16.19	2.78	13.41	2233.	32.69
42	3	447.	9.4	28.00	***	***	6447.	47.01
43	3	352.	9.8	20.29	3.29	17.00	3684.	35.91

DUST COLLECTOR OUTLET

09	1	397.	8.9	0.82	0.14	0.68	168.	37.40
10	1	451.	9.1	0.48	0.11	0.37	112.	37.90
11	1	439.	9.1	0.50	0.14	0.36	113.	39.30
12	1	432.	8.9	0.69	0.11	0.58	154.	38.74
13	1	400.	8.9	0.64	0.16	0.48	132.	36.15
14	1	431.	9.2	0.94	0.19	0.75	209.	40.57
15	1	425.	9.1	0.78	0.15	0.63	171.	39.26
16	1	417.	8.7	0.84	0.14	0.70	181.	38.95
19	1	417.	8.7	0.88	0.15	0.73	189.	38.06
20	1	274.	11.0	0.51	0.16	0.35	72.	30.85
23	2	491.	8.6	1.04	0.08	0.96	263.	45.11
24	2	480.	8.7	1.03	0.06	0.97	255.	46.40
25	2	394.	8.6	0.55	0.05	0.50	112.	35.86
26	2	481.	9.9	1.04	0.07	0.97	258.	44.39
27	2	459.	8.9	1.03	0.08	0.95	244.	45.65
28	2	490.	9.0	0.94	0.06	0.88	238.	48.12
29	2	494.	8.4	0.74	0.03	0.71	189.	45.97
35	2	292.	10.6	0.36	***	***	54.	32.76
36	2	482.	8.1	0.52	0.07	0.45	129.	45.77
40	2	499.	8.3	0.47	0.06	0.41	121.	45.80

TABLE 4

PARTICULATE EMISSIONS DATA

ABMA TEST SITE C

DUST COLLECTOR OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
41	3	268.	11.3	0.54	0.14	0.40	74.	31.56
42	3	447.	9.4	1.07	0.19	0.88	246.	45.30
43	3	352.	9.8	0.69	0.17	0.52	125.	34.53

TABLE 4 PARTICULATE EMISSIONS DATA PAGE 1

ARMA TEST SITE D

BOILER OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
04	1	205.	9.3	0.66	0.16	0.50	35.	6.57
05	1	337.	7.9	0.83	0.24	0.59	72.	10.14
06	1	247.	8.7	0.69	0.15	0.54	44.	7.29
07	1	246.	10.2	0.79	0.13	0.66	50.	9.32
08	1	219.	9.7	0.79	0.16	0.63	44.	8.92
09	1	139.	11.5	0.73	0.11	0.62	26.	5.32
10	1	244.	9.9	0.71	***	***	44.	8.16
12	1	322.	8.4	1.10	0.24	0.86	91.	9.55
13	1	340.	7.5	0.84	0.24	0.60	73.	8.86
14	2	327.	7.5	1.34	0.54	0.80	112.	9.39
15	2	354.	7.8	1.00	0.24	0.76	91.	9.81
16	2	260.	8.7	0.80	0.21	0.59	53.	8.12
17	2	350.	7.3	1.07	0.33	0.74	96.	9.39
18	2	314.	8.1	0.97	0.27	0.70	78.	10.94
23	3	231.	10.4	0.76	0.20	0.56	45.	8.80

DUST COLLECTOR OUTLET

03	1	263.	10.1	0.36	***	***	24.	18.59
04	1	205.	9.3	0.56	***	***	29.	13.36
05	1	337.	7.9	0.57	0.16	0.41	49.	16.07
06	1	247.	8.7	0.37	***	***	23.	13.74
07	1	246.	10.2	0.49	***	***	31.	15.50
08	1	219.	9.7	0.33	***	***	18.	17.09
09	1	139.	11.5	0.46	***	***	16.	10.82
10	1	244.	9.9	0.35	***	***	22.	14.03
12	1	322.	8.4	0.67	***	***	55.	17.37
13	1	340.	7.5	0.49	***	***	43.	17.77
14	2	327.	7.5	0.75	***	***	63.	14.97
15	2	354.	7.8	0.42	***	***	38.	16.25
16	2	260.	8.7	0.32	***	***	21.	14.62
17	2	350.	7.3	0.39	0.11	0.28	35.	17.14
18	2	314.	8.1	0.42	0.12	0.30	34.	16.09
23	3	231.	10.4	0.60	***	***	36.	13.67

TABLE 4

PARTICULATE EMISSIONS DATA

ABMA TEST SITE E

BOILER OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
02	1	392.	7.6	3.46	***	***	467.	13.99
03	1	274.	8.8	2.96	***	***	279.	11.98
04	1	519.	7.2	4.97	***	***	688.	18.97
05	1	406.	9.9	6.19	***	***	864.	17.53
06	1	454.	9.0	2.06	1.28	0.78	322.	17.65
07	1	504.	5.2	5.23	3.94	1.29	907.	19.92
08	1	458.	6.8	4.49	3.17	1.32	708.	18.49
09	1	400.	7.7	3.98	2.50	1.48	548.	18.47
11	1	454.	6.5	4.32	2.53	1.79	675.	17.94
12	2	482.	5.9	3.51	1.74	1.77	582.	18.70
13	2	344.	9.2	3.63	2.13	1.50	429.	18.26
14	2	541.	3.9	6.47	5.40	1.07	1204.	21.00
15	3	604.	5.9	5.38	3.24	2.14	1118.	21.25
20	1	**	7.0	4.79	3.73	1.06	**	21.33

DUST COLLECTOR OUTLET

03	1	274.	8.8	0.31	0.09	0.22	29.	35.69
04	1	519.	7.2	0.20	0.04	0.16	36.	56.71
05	1	406.	9.9	0.27	***	***	38.	59.79
06	1	454.	9.0	0.34	0.21	0.13	53.	52.42
07	1	504.	5.2	1.82	1.22	0.60	316.	53.19
08	1	458.	6.8	0.19	***	***	30.	50.63
09	1	400.	7.7	0.64	0.39	0.25	88.	45.02
11	1	454.	6.5	1.56	0.97	0.59	244.	54.20
12	2	482.	5.9	1.85	1.04	0.81	307.	53.10
13	2	344.	9.2	1.46	0.83	0.63	173.	52.06
14	2	541.	3.9	3.84	***	***	714.	54.16
15	3	604.	5.9	1.75	***	***	364.	52.99
20	1	**	7.0	2.41	***	***	**	55.50

TABLE 4

PARTICULATE EMISSIONS DATA

ABMA TEST SITE F

BOILER OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
05	1	341.	9.4	5.08	2.51	2.57	245.	20.18
15	1	666.	7.8	5.93	3.74	2.19	559.	39.52
17	1	659.	6.7	5.51	3.86	1.65	513.	34.77
18	1	648.	5.5	6.17	4.41	1.76	565.	30.87
19	1	665.	5.9	8.79	6.32	2.47	827.	29.71
20	1	513.	8.4	4.01	2.68	1.33	291.	27.82
21	1	531.	8.0	5.57	***	***	418.	28.96
23A	1	685.	6.3	5.24	***	***	507.	31.70
24	1	698.	5.0	7.18	4.81	2.37	708.	29.10
29	2	631.	5.0	5.94	***	***	530.	29.74
35	2	503.	8.7	4.73	3.43	1.30	337.	28.14

DUST COLLECTOR OUTLET

15	1	666.	7.8	1.33	0.69	0.64	125.	59.23
17	1	659.	6.7	1.13	0.51	0.62	105.	56.51
18	1	648.	5.5	0.77	0.32	0.45	71.	49.75
19	1	665.	5.9	1.26	0.58	0.68	119.	49.56
21	1	531.	8.0	1.26	0.57	0.69	95.	45.64
23A	1	685.	6.3	1.00	***	***	97.	53.48
24	1	698.	5.0	1.03	0.47	0.56	102.	49.97
29	2	631.	5.0	1.39	0.65	0.74	124.	46.21
35	2	503.	8.7	1.03	0.51	0.52	73.	47.62

TABLE 4

PARTICULATE EMISSIONS DATA

ABMA TEST SITE G

BOILER OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
02	1	614.	8.9	4.27	2.48	1.79	364.	39.69
03	1	575.	8.7	4.33	2.26	2.07	346.	37.32
04	1	554.	10.4	7.41	***	***	571.	38.04
05	1	735.	7.0	6.79	3.37	3.42	694.	42.27
06	1	415.	10.5	4.17	1.99	2.18	240.	30.36
07	2	125.	14.6	2.14	1.01	1.13	37.	16.16
08	2	719.	6.6	2.93	***	***	293.	35.14
10	1	621.	9.7	6.59	3.76	2.83	569.	38.79
16	1	114.	15.2	2.27	1.08	1.19	36.	16.72
17	1	706.	7.4	5.86	***	***	575.	50.45
18	3	702.	7.5	4.78	***	***	466.	42.64
19	3	120.	15.1	2.06	1.03	1.03	34.	15.83
22	3	595.	9.1	4.72	2.58	2.14	390.	41.63
23	3	546.	8.0	4.57	2.31	2.26	347.	37.70
24	3	565.	7.3	4.00	2.52	1.48	314.	35.86

DUST COLLECTOR OUTLET

02	1	614.	8.9	0.22	***	***	19.	63.21
03	1	575.	8.7	0.22	0.06	0.16	18.	62.64
04	1	554.	10.4	0.22	0.06	0.16	17.	62.88
05	1	735.	7.0	0.27	***	***	28.	65.63
06	1	415.	10.5	0.13	***	***	7.	50.28
07	2	125.	14.6	0.95	0.51	0.44	17.	34.78
08	2	719.	6.6	0.17	0.06	0.11	17.	68.19
10	1	621.	9.7	0.48	0.11	0.37	41.	65.87
16	1	114.	15.2	0.93	0.16	0.77	15.	28.70
17	1	706.	7.4	0.36	0.10	0.26	35.	68.65
18	3	702.	7.5	0.32	0.09	0.23	31.	70.96
19	3	120.	15.1	0.50	0.26	0.24	8.	27.57
22	3	595.	9.1	0.33	0.09	0.24	27.	67.62
23	3	546.	8.0	0.32	0.09	0.23	24.	60.42
24	3	565.	7.3	0.26	0.08	0.18	20.	62.61

TABLE 4 PARTICULATE EMISSIONS DATA

ABMA TEST SITE H

BOILER OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
03	1	446.	8.0	2.20	0.51	1.69	138.	28.73
05	1	435.	9.4	1.13	***	***	69.	29.47
06	1	428.	10.6	0.90	0.23	0.67	54.	31.04
08	1	329.	8.2	0.55	0.17	0.38	25.	13.87
09	1	228.	11.6	0.68	0.23	0.45	22.	12.81

DUST COLLECTOR OUTLET

TABLE 4 PARTICULATE EMISSIONS DATA PAGE 1

ARMA TEST SITE 1

BOILER OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
01	1	191.	11.8	0.54	0.12	0.42	26.	34.01
02	1	371.	8.3	1.76	0.65	1.11	165.	43.99
03	1	391.	8.3	1.00	0.22	0.78	99.	47.22
04	1	379.	6.6	0.90	0.23	0.67	86.	41.37
05	1	310.	8.9	0.95	0.27	0.68	74.	***
10	2	181.	11.6	0.73	***	***	33.	28.09
14	2	271.	10.1	1.34	0.37	0.97	92.	40.15
15	2	383.	7.6	1.43	***	***	138.	39.89

DUST COLLECTOR OUTLET

TABLE 4 PARTICULATE EMISSIONS DATA

ABMA TEST SITE J

BOILER OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
01	1	195.	10.2	0.37	0.10	0.27	15.	33.96
02	1	298.	10.6	0.78	0.19	0.59	49.	53.47
05	1	414.	7.9	1.44	0.34	1.10	127.	62.67
06	2	398.	8.1	0.70	0.19	0.51	59.	59.08
07	1	343.	8.7	0.46	0.11	0.35	34.	51.34
08	2	295.	9.0	0.57	0.21	0.36	36.	40.87
09	2	200.	12.2	0.62	0.19	0.43	26.	37.78
14	1	392.	8.8	0.98	***	***	82.	58.64

DUST COLLECTOR OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
01	1	195.	10.2	0.12	***	***	5.	20.23
02	1	298.	10.6	0.19	***	***	12.	30.62
05	1	414.	7.9	0.23	***	***	20.	33.68
06	2	398.	8.1	0.18	***	***	15.	31.69
07	1	343.	8.7	0.17	***	***	12.	28.85
08	2	295.	9.0	0.11	***	***	7.	21.42
09	2	200.	12.2	0.19	***	***	8.	19.41
14	1	392.	8.8	0.22	***	***	18.	31.73

TABLE 4 PARTICULATE EMISSIONS DATA

ABMA TEST SITE K

BOILER OUTLET

TEST NO.	COAL DESIGNATOR	GRATE HEAT RELEASE KBTU/HR-FT2	O2 % (DRY)	PARTICULATE LOADING LB/MKB	COMBUSTIBLE LOADING LB/MKB	INORGANIC ASH LOADING LB/MKB	MASS LOADING LB/HR	FLU GAS VELOCITY FT/SEC
01	1	401.	8.8	1.24	0.40	0.84	80.	26.45
02	1	201.	13.7	0.74	0.27	0.47	24.	20.23
03	1	301.	10.9	0.80	***	***	39.	21.33
04	1	405.	8.2	0.76	0.28	0.48	49.	24.88
05	1	386.	7.5	0.76	0.31	0.45	47.	25.23
06	1	378.	8.3	0.66	0.19	0.47	40.	27.04
07	1	399.	7.2	0.85	0.23	0.62	54.	27.02
08	1	428.	7.3	0.64	0.19	0.45	44.	25.55
09	1	185.	13.0	0.48	0.12	0.36	14.	17.48
10	1	311.	10.1	0.71	0.24	0.47	35.	24.70
11	1	435.	6.4	0.57	0.18	0.39	40.	25.83
12	2	242.	12.9	1.25	0.38	0.87	48.	26.60
13	2	325.	11.6	2.06	0.73	1.33	107.	27.79
14	2	408.	8.5	2.20	0.77	1.43	144.	31.39
15	3	379.	10.0	1.13	0.37	0.76	69.	24.90
16	3	394.	6.0	1.23	0.46	0.77	78.	25.95
17	3	177.	10.8	0.70	0.22	0.48	20.	20.55

DUST COLLECTOR OUTLET

01	1	401.	8.8	0.20	***	***	13.	52.48
02	1	201.	13.7	0.19	***	***	6.	39.59
03	1	301.	10.9	0.23	***	***	11.	41.82
04	1	405.	8.2	0.15	***	***	10.	51.03
05	1	386.	7.5	0.16	***	***	10.	48.79
06	1	378.	8.3	0.13	***	***	8.	51.77
07	1	399.	7.2	0.13	***	***	8.	52.80
08	1	428.	7.3	0.11	***	***	8.	51.54
09	1	185.	13.0	0.14	***	***	4.	32.89
10	1	311.	10.1	0.12	***	***	6.	48.78
11	1	435.	6.4	0.12	***	***	8.	49.56
12	2	242.	12.9	0.24	***	***	9.	50.11
13	2	325.	11.6	0.20	***	***	10.	53.70
14	2	408.	8.5	0.16	***	***	10.	54.46
15	3	379.	10.0	0.15	***	***	9.	44.95
16	3	394.	6.0	0.14	***	***	9.	47.05
17	3	177.	10.8	0.14	***	***	4.	36.59

TABLE 5

PERCENT COMBUSTIBLES IN ASH

ABMA TEST SITE A

STANSBURY:

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
03	***	26.30	***	***
04	***	29.20	***	***
05	***	37.60	***	***
06	***	39.10	***	***
10	***	20.10	***	***
14A	***	***	***	0.74
14B	***	***	***	0.74
15	***	37.60	***	***
AVERAGE	***	31.65	***	0.74

KEMMERER:

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
16	***	21.40	***	0.12
17A	***	***	***	0.28
17B	***	***	***	0.28
21	72.10	***	76.70	***
22	58.40	***	***	***
23	43.70	***	***	0.26
24	60.80	***	***	0.53
26A	52.30	***	58.81	1.87
26B	***	30.80	74.17	0.17
28	65.80	***	80.59	***
29	54.60	***	58.73	***
AVERAGE	58.24	26.10	69.80	0.50

CONSOLIDATION:

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
34A	***	***	66.60	0.82
35A	***	***	70.00	1.66
36	60.10	***	68.45	***
37	65.60	***	***	***
38	61.30	***	54.71	0.23
39	47.20	***	48.06	2.80
AVERAGE	58.55	***	61.56	1.38

TABLE 5

PERCENT COMBUSTIBLES IN ASH

ABMA TEST SITE B

KENTUCKY CUMERLANDS	TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
	02	59.20	***	63.00	8.20
	04	55.20	***	50.90	19.10
	08	59.70	15.40	31.60	24.20
	09	61.60	21.90	55.30	24.20
	19	62.00	28.80	62.90	10.00
	20	65.10	28.00	76.00	6.50
	23	60.90	26.70	79.50	14.20
	25	47.00	25.00	56.70	9.90
	27	57.30	28.30	47.20	6.40
	28	70.30	29.20	60.20	23.40
	31	***	***	76.10	15.60
	AVERAGE	59.83	25.41	60.00	14.52

HATFIELDS	TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
	03	43.40	***	48.60	5.40
	21	55.20	25.20	52.90	6.70
	22	53.30	28.90	73.90	25.80
	26A	57.10	26.60	47.70	17.60
	30	***	***	54.20	16.50
	AVERAGE	52.25	26.90	55.46	14.40

SOUTHEASTS	TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
	06	59.80	51.80	68.00	9.70
	07	67.60	22.30	65.90	***
	18	64.20	22.40	65.20	8.90
	24	55.30	53.10	62.00	13.60
	33	***	***	74.80	8.70
	AVERAGE	61.72	37.40	67.18	10.22

RELOADS	TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
	11	64.00	33.70	53.90	4.00

12	62.60	23.00	53.90	4.00
15	69.00	***	***	***
16	74.90	***	***	***
17	62.80	23.60	66.00	5.70
AVERAGE	66.66	26.77	57.93	4.57

TABLE 5

PERCENT COMBUSTIBLES IN ASH

ABMA TEST SITE C

EASTERN LOW FUSIONS

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
08	24.20	***	16.90	3.00
09	***	17.40	32.60	0.70
10	***	23.60	21.60	2.30
11	57.20	28.90	40.90	1.60
12	47.80	16.50	30.20	21.20
13	30.80	25.30	57.70	19.20
14	24.40	19.80	23.20	2.10
15	46.00	19.30	19.00	1.50
16	55.90	16.90	25.20	5.30
19	41.60	17.40	24.10	23.60
20	30.20	31.50	21.70	9.10
46	***	***	14.10	1.50
AVERAGE	39.79	21.71	27.10	7.59

WESTERN

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
23	8.70	7.50	7.90	20.40
24	***	6.20	3.80	21.10
25	9.20	8.50	2.90	37.50
26	12.10	6.30	4.30	5.80
27	11.70	7.30	4.20	34.40
28	7.10	6.30	4.40	19.00
29	8.40	5.60	3.20	6.30
35	4.00	***	3.30	51.40
36	***	13.70	9.30	2.80
40	26.60	12.40	17.60	0.50
44	***	***	6.90	2.50
45	***	***	4.20	0.20
AVERAGE	10.97	7.98	6.00	16.81

EASTERN HIGH FUSIONS

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
41	17.20	26.70	11.10	1.10
42	***	18.20	11.30	1.90
43	16.20	24.00	12.20	0.80
AVERAGE	16.70	22.97	11.53	1.27

TABLE 5

PERCENT COMBUSTIBLES IN ASH

ABMA TEST SITE D

PERFECT 8S	TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
	02	***	***	16.93	14.89
	03	35.20	***	11.93	33.10
	04	23.70	***	11.10	19.39
	05	28.80	26.40	***	15.05
	06	21.90	***	13.58	17.49
	07	16.00	***	10.72	19.58
	08	20.80	***	8.90	20.73
	09	14.40	***	17.46	11.80
	10	***	***	6.06	8.39
	12	22.10	***	8.86	18.72
	13	28.20		8.85	22.55
	AVERAGE	23.46	26.40	11.44	18.34

CENTURYS	TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
	14	40.10	***	11.40	15.28
	15	23.60	***	16.32	14.48
	16	25.90	***	9.74	15.02
	17	30.80	27.80	***	15.93
	18	28.10	27.70	14.85	21.31
	AVERAGE	29.70	27.75	13.08	16.40

VICTORIAS	TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
	22	***	***	10.81	33.73
	23	26.50	***	***	35.93
	AVERAGE	26.50	***	10.81	34.83

TABLE 5

PERCENT COMBUSTIBLES IN ASH

ABMA TEST SITE E

KENTUCKY INDUSTRIALS

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
02	***	***	50.85	8.00
03	***	28.80	55.47	5.68
04	***	20.00	42.26	8.24
05	***	***	38.26	6.75
06	62.30	61.20	57.83	10.51
07	75.30	67.20	57.02	10.10
08	70.60	***	42.70	6.97
09	62.80	61.40	48.59	16.93
11	58.60	62.00	34.21	15.84
17	***	***	33.02	6.39
20	77.80	***	48.49	8.07
AVERAGE	67.90	50.10	46.25	9.41

CRUSHEDS

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
12	49.50	56.00	53.86	11.53
13	58.60	56.90	***	7.70
14	83.50	***	***	***
AVERAGE	63.87	56.45	53.86	9.61

EAST KENTUCKYS

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
15	60.30	***	57.15	12.63
16	***	***	56.95	10.46
AVERAGE	60.30	***	57.05	11.54

TABLE 5

PERCENT COMBUSTIBLES IN ASH

ABMA TEST SITE F

PENNSYLVANIA AS

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
05	49.50	***	***	10.62
15	63.10	52.10	***	27.23
17	70.10	45.00	***	17.34
18	71.40	41.30	***	8.21
19	71.90	46.10	***	13.79
20	66.90	***	***	6.05
21	***	45.50	***	9.90
22	***	***	65.90	8.62
23A	***	***	56.63	9.60
23B	***	***	63.27	11.42
24	67.00	45.80	63.45	13.81
AVERAGE	65.70	45.97	62.31	12.42

PENNSYLVANIA BS

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
29	***	47.00	***	13.07
30	***	***	64.51	10.19
35	72.60	49.50	***	13.82
AVERAGE	72.60	48.25	64.51	12.36

TABLE 5

PERCENT COMBUSTIBLES IN ASH

AUMA TEST SITE C

WHITE ASH3

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
02	58.10	***	53.90	12.53
03	52.20	29.10	53.91	7.26
04	***	26.90	56.74	11.23
05	49.70	***	49.85	6.93
06	47.70	***	49.85	7.11
09	***	***	55.71	7.87
10	57.00	22.90	42.73	9.77
15	***	***	40.65	14.88
16	47.60	16.80	57.30	8.18
17	***	28.70	57.30	7.34
AVERAGE	52.05	25.28	51.79	9.31

SPURLOCK$

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
07	47.40	54.20	50.05	4.22
08	***	34.60	56.65	6.02
AVERAGE	47.40	44.40	53.35	5.12

PEVLER$

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
18	***	29.50	51.15	13.93
19	50.10	53.00	62.51	8.79
20	***	***	57.09	12.32
22	54.70	28.60	67.03	19.09
23	50.60	28.80	57.57	13.12
24	62.90	30.20	56.13	11.48
AVERAGE	54.57	34.02	58.58	13.12

TABLE 5

PERCENT COMBUSTIBLES IN ASH

ABMA TEST SITE H

SANDS HILLS

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
03	23.00	***	***	19.57
05	***	***	***	20.72
06	25.20	***	***	14.56
08	30.50	***	***	18.18
09	33.40	***	***	18.10
11	***	***	***	7.10
AVERAGE	28.02	***	***	16.37

TABLE 5

PERCENT COMBUSTIBLES IN ASH

ABMA TEST SITE I

OHIO5

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
01	23.00	***	***	44.69
02	36.70	***	***	24.27
03	22.00	***	***	35.89
04	25.60	***	***	***
05	28.40	***	***	30.82
09	***	***	***	35.51
AVERAGE	27.14	***	***	34.24

KENTUCKY5

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
14	27.80	***	***	***
15	***	***	***	14.14
18	***	***	***	18.39
AVERAGE	27.80	***	***	16.26

TABLE 5

PERCENT COMBUSTIBLES IN ASH

ABMA TEST SITE J

OHIO5

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
01	26.70	***	29.86	20.17
02	24.90	***	12.09	15.47
05	23.70	***	21.89	***
07	24.70	***	22.62	19.57
13	***	***	25.15	18.58
14	***	***	21.02	30.93
16	***	***	27.79	18.97
AVERAGE	25.00	***	22.92	20.61

KENTUCKY5

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
06	26.80	***	24.18	20.26
08	36.00	***	28.87	30.75
09	30.10	***	24.76	7.23
15	***	***	27.68	24.09
AVERAGE	30.97	***	26.37	20.58

TABLE 5

PERCENT COMBUSTIBLES IN ASH

ABMA TEST SITE K

ALABAMA WASHEDS

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
01	32.20	***	30.08	27.63
02	36.00	***	30.68	23.93
03	***	***	27.99	37.50
04	36.70	***	32.08	47.59
05	40.80	***	28.77	69.07
06	29.40	***	32.60	60.00
07	27.00	***	23.75	37.85
08	29.40	***	33.56	39.52
09	24.00	***	27.22	75.48
10	34.20	***	29.76	36.57
11	30.90	***	29.62	46.78
18	***	***	28.12	29.50
AVERAGE	32.06	***	29.52	44.28

ALABAMA UNWASHEDS

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
12	30.40	***	28.90	27.02
13	35.50	***	30.64	34.78
14	35.10	***	29.72	34.78
AVERAGE	33.67	***	29.75	32.19

ALABAMA CRUSHEDS

TEST NO.	BOILER OUTLET COMBUSTIBLES,%	DC OUTLET COMBUSTIBLES,%	COLLECTED ASH COMBUSTIBLES,%	BOTTOM ASH COMBUSTIBLES,%
15	32.80	***	26.49	39.84
16	37.80	***	26.46	21.00
17	31.60	***	***	72.72
AVERAGE	34.07	***	26.48	44.52

TABLE 6

COAL SIZE CONSISTENCY

ABMA TEST SITE A

STANSBURYS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16

KEMMERERS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
21	96.	78.	45.	23.	15.
22	97.	87.	70.	40.	26.
23	99.	83.	49.	23.	13.
24	98.	88.	67.	38.	22.
26A	98.	78.	47.	23.	14.
26B	99.	89.	66.	35.	22.
27	99.	88.	64.	33.	20.
28	96.	74.	44.	22.	14.
29	97.	76.	49.	26.	16.
30	95.	77.	52.	28.	17.
32	99.	91.	72.	38.	23.
40	97.	86.	68.	43.	28.
AVERAGE	98.	83.	58.	31.	19.

CONSOLIDATIONS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
34A	98.	82.	53.	27.	17.
34B	98.	82.	53.	27.	17.
35A	98.	82.	52.	32.	19.
36	95.	75.	50.	27.	17.
37	97.	88.	70.	42.	27.
38	98.	90.	74.	41.	28.
39	97.	87.	72.	44.	28.
AVERAGE	97.	84.	61.	34.	22.

TABLE 6

COAL SIZE CONSISTENCY

ABMA TEST SITE B

KENTUCKY CUMERLANDS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
01	93.	56.	23.	6.	**
02	93.	66.	26.	6.	**
04	92.	63.	30.	14.	9.
08	94.	44.	21.	14.	11.
09	94.	52.	28.	14.	9.
19	94.	57.	25.	12.	9.
20	95.	63.	28.	12.	7.
23	95.	68.	36.	17.	11.
25	95.	52.	25.	11.	8.
27	97.	46.	20.	10.	7.
28	97.	52.	23.	12.	8.
31	93.	59.	31.	14.	9.
AVERAGE	94.	57.	26.	12.	7.

HATFIELDS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
03	97.	72.	42.	15.	5.
05	96.	73.	39.	18.	11.
21	87.	47.	21.	10.	7.
22	95.	67.	36.	17.	11.
26A	97.	73.	41.	20.	12.
30	97.	58.	29.	15.	10.
AVERAGE	95.	65.	35.	16.	9.

SOUTHEASTS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
06	94.	46.	23.	12.	8.
07	97.	62.	32.	14.	9.
24	96.	55.	26.	13.	9.
33	96.	57.	26.	12.	8.
AVERAGE	96.	55.	27.	13.	9.

RELOADS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
11	97.	44.	19.	9.	6.
12	95.	52.	27.	14.	9.
15	94.	55.	29.	15.	11.
16	95.	63.	35.	21.	11.
17	90.	27.	12.	6.	4.
AVERAGE	94.	48.	24.	13.	8.

TABLE 6

COAL SIZE CONSISTENCY

ABMA TEST SITE C

EASTERN LOW FUSIONS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
08	86.	62.	37.	10.	5.
09	90.	74.	52.	27.	13.
10	88.	66.	43.	18.	8.
11	88.	71.	50.	22.	9.
12	89.	66.	42.	16.	6.
13	91.	71.	46.	19.	7.
14	91.	70.	47.	25.	12.
15	91.	67.	47.	25.	13.
16	90.	70.	49.	27.	14.
19	88.	63.	43.	23.	13.
20	92.	72.	50.	28.	14.
46	88.	66.	45.	25.	16.
47	92.	70.	47.	25.	14.
AVERAGE	90.	68.	46.	22.	11.

WESTERNS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
23	91.	67.	48.	30.	15.
24	93.	67.	42.	24.	15.
25	94.	68.	44.	26.	18.
26	94.	75.	52.	28.	16.
27	93.	66.	42.	21.	11.
28	96.	81.	59.	34.	20.
29	92.	71.	49.	29.	18.
35	90.	68.	45.	24.	14.
36	95.	72.	49.	26.	14.
40	93.	71.	46.	25.	16.
44	91.	70.	46.	26.	16.
45	93.	71.	49.	27.	15.
AVERAGE	93.	71.	48.	27.	16.

EASTERN HIGH FUSIONS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
41	65.	65.	47.	26.	12.

42	78.	54.	40.	26.	18.
43	84.	62.	43.	26.	16.
AVERAGE	82.	60.	43.	26.	15.

TABLE 6

COAL SIZE CONSISTENCY

ABMA TEST SITE D

PERFECT 88

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
02	100.	60.	15.	6.	4.
03	98.	66.	20.	8.	4.
04	99.	45.	9.	4.	3.
05	100.	36.	6.	3.	2.
06	99.	46.	9.	4.	3.
07	99.	39.	5.	2.	2.
08	100.	49.	8.	4.	3.
09	98.	39.	7.	4.	3.
10	99.	43.	6.	3.	3.
12	100.	54.	9.	4.	2.
13	100.	58.	9.	4.	3.
AVERAGE	99.	49.	9.	4.	3.

CENTURYS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
14	99.	50.	13.	6.	5.
15	95.	48.	14.	6.	4.
16	96.	48.	14.	5.	3.
17	96.	50.	16.	7.	5.
18	95.	52.	18.	8.	5.
AVERAGE	96.	50.	15.	6.	4.

VICTORIAS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
22	88.	40.	16.	8.	4.
23	89.	40.	16.	8.	6.
AVERAGE	89.	40.	16.	8.	5.

TABLE 6

COAL SIZE CONSISTENCY

ABMA TEST SITE E

KENTUCKY INDUSTRIAL:

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
02	93.	52.	21.	9.	5.
03	96.	66.	37.	19.	12.
04	97.	66.	30.	13.	8.
05	95.	77.	55.	32.	17.
06	87.	57.	34.	19.	13.
07	90.	65.	34.	15.	10.
08	88.	57.	34.	18.	12.
09	85.	62.	37.	19.	12.
11	90.	59.	31.	16.	11.
17	93.	66.	40.	21.	12.
20	93.	74.	52.	26.	10.
AVERAGE	92.	64.	37.	19.	11.

CRUSHED:

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
12	98.	61.	30.	14.	9.
13	92.	54.	29.	15.	10.
14	89.	56.	33.	16.	10.
AVERAGE	93.	57.	31.	15.	10.

EAST KENTUCKY:

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
15	86.	61.	41.	22.	14.
16	89.	64.	42.	23.	14.
AVERAGE	88.	62.	41.	22.	14.

TABLE 6

COAL SIZE CONSISTENCY

AdMA TEST SITE F

PENNSYLVANIA AS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
15	95.	55.	25.	17.	15.
17	93.	61.	24.	14.	11.
18	93.	49.	16.	11.	9.
19	98.	66.	31.	19.	14.
20	98.	69.	32.	19.	14.
21	97.	66.	25.	15.	12.
22	94.	59.	23.	14.	11.
23A	95.	56.	22.	13.	11.
23B	97.	68.	32.	19.	14.
24	99.	73.	37.	21.	16.
AVERAGE	96.	62.	26.	16.	13.

PENNSYLVANIA 8S

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
29	97.	57.	28.	17.	12.
30	96.	65.	28.	17.	12.
35	97.	57.	28.	18.	13.
AVERAGE	97.	59.	28.	17.	12.

TABLE 6

COAL SIZE CONSISTENCY

ABMA TEST SITE G

WHITE ASH

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
02	98.	67.	40.	20.	13.
03	99.	64.	31.	14.	9.
04	97.	71.	36.	15.	6.
05	99.	78.	43.	17.	8.
06	99.	82.	50.	27.	16.
09	99.	57.	32.	15.	8.
10	99.	71.	39.	22.	15.
15	99.	80.	47.	25.	15.
16	98.	81.	48.	23.	13.
17	96.	75.	43.	23.	15.
AVERAGE	98.	73.	41.	20.	12.

SPURLOCKS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
07	100.	51.	24.	15.	11.
08	100.	49.	19.	11.	8.
AVERAGE	100.	50.	22.	13.	9.

PEVLERS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
18	99.	86.	52.	24.	14.
19	96.	68.	34.	15.	10.
20	97.	64.	32.	15.	10.
22	94.	69.	32.	13.	8.
23	99.	79.	32.	13.	8.
24	96.	69.	32.	14.	10.
AVERAGE	97.	73.	36.	16.	10.

TABLE 6

COAL SIZE CONSISTENCY

ABMA TEST SITE H

SANDS HILLS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
03	96.	63.	37.	19.	13.
05	95.	61.	24.	10.	6.
06	93.	59.	23.	9.	6.
08	89.	44.	14.	5.	3.
09	95.	67.	36.	16.	11.
11	92.	49.	22.	10.	7.
AVERAGE	93.	57.	26.	11.	8.

TABLE 6

COAL SIZE CONSISTENCY

AbMA TEST SITE I

OHIO$

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
01	96.	80.	45.	17.	10.
02	88.	63.	37.	16.	10.
03	82.	50.	22.	11.	8.
04	79.	45.	24.	13.	8.
05	78.	49.	27.	14.	10.
06	83.	48.	25.	12.	9.
09	86.	55.	31.	15.	10.
AVERAGE	85.	55.	30.	14.	9.

KENTUCKY$

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
10	94.	51.	25.	13.	8.
14	97.	58.	32.	18.	12.
15	94.	58.	30.	16.	10.
18	95.	36.	11.	6.	5.
AVERAGE	95.	51.	24.	13.	9.

TABLE 6

COAL SIZE CONSISTENCY

ABMA TEST SITE J

OHIO$

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
01	78.	36.	11.	5.	4.
02	84.	45.	18.	8.	6.
05	94.	67.	37.	19.	12.
07	77.	24.	7.	4.	3.
13	90.	43.	18.	13.	10.
14	84.	35.	11.	7.	5.
16	81.	38.	20.	12.	8.
AVERAGE	84.	41.	17.	10.	7.

KENTUCKY$

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
06	91.	21.	5.	3.	3.
08	97.	45.	11.	5.	4.
09	94.	53.	18.	10.	7.
15	94.	24.	5.	3.	3.
AVERAGE	94.	36.	10.	5.	4.

TABLE 6

COAL SIZE CONSISTENCY

ABMA TEST SITE K

ALABAMA WASHEDS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
01	68.	38.	22.	9.	5.
02	86.	42.	19.	4.	**
03	70.	35.	20.	10.	6.
04	82.	40.	22.	10.	6.
05	74.	30.	16.	8.	5.
06	63.	28.	16.	8.	6.
07	75.	39.	21.	10.	6.
08	76.	37.	19.	10.	6.
09	82.	50.	31.	13.	8.
10	69.	25.	15.	8.	5.
11	72.	37.	21.	10.	6.
18	78.	40.	23.	11.	7.
AVERAGE	74.	37.	20.	9.	5.

ALABAMA UNWASHEDS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
12	63.	37.	23.	15.	11.
13	65.	46.	32.	19.	13.
14	57.	34.	22.	13.	9.
AVERAGE	62.	39.	26.	16.	11.

ALABAMA CRUSHEDS

TEST NO.	PERCENT PASSING STATED SCREEN SIZE				
	1"	1/2"	1/4"	#8	#16
15	97.	79.	54.	26.	14.
16	94.	72.	39.	21.	14.
17	93.	63.	39.	20.	12.
AVERAGE	95.	71.	44.	22.	13.

TABLE 7 FUEL ANALYSIS RESULTS - STANSBURYS PAGE 1
ABMA TEST SITE A

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
01	14.21	7.00	33.96	44.83	10365.	1.05	14.21	60.64	4.24	1.01	***	1.05	7.00	11.85	**	**	**	*.
05	15.33	5.21	34.29	45.27	10588.	1.02	***	***	***	***	***	***	***	***	**	**	**	*.
08A	13.10	5.79	35.18	45.93	10838.	0.97	***	***	***	***	***	***	***	***	**	**	**	*.
09	14.57	5.95	34.79	44.69	10637.	0.91	***	***	***	***	***	***	***	***	**	**	**	*.
10	13.70	6.70	34.33	45.27	10505.	0.92	13.70	60.30	4.08	0.96	0.02	0.92	6.70	13.32	2000.	2190.	2240.	2640.
12	13.36	5.70	35.15	45.79	10548.	0.88	***	***	***	***	***	***	***	***	**	**	**	*.
14A	14.61	4.49	35.03	45.87	10780.	0.90	***	***	***	***	***	***	***	***	**	**	**	*.
15	13.56	6.13	35.69	44.62	10567.	0.86	***	***	***	***	***	***	***	***	**	**	**	*.
18A	15.05	5.90	34.72	44.33	10538.	0.88	***	***	***	***	***	***	***	***	**	**	**	*.
18B	15.05	5.90	34.72	44.33	10538.	0.88	***	***	***	***	***	***	***	***	**	**	**	*.
19	15.64	8.04	33.97	42.35	10107.	0.92	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	14.38	6.07	34.71	44.64	10546.	0.93	13.95	60.47	4.16	0.98	0.02	0.98	6.85	12.58	2000.	2190.	2240.	2640.
S DEV	0.82	0.89	0.51	0.97	185.	0.06												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

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TABLE 7

FUEL ANALYSIS RESULTS - KEMMERERS
ABMA TEST SITE A

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	MHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
16	17.85	6.97	33.20	42.16	9969.	0.62	***	***	***	***	***	***	***	***	**	**	**	*.
17A	17.80	3.94	35.72	42.54	10350.	0.63	***	***	***	***	***	***	***	***	**	**	**	*.
21	17.83	2.65	35.99	43.53	10514.	0.49	***	***	***	***	***	***	***	***	**	**	**	*.
22	18.94	2.63	34.45	43.98	10338.	0.54	***	***	***	***	***	***	***	***	**	**	**	*.
23	20.43	2.86	34.61	42.10	10242.	0.56	20.43	58.97	4.02	0.72	***	0.56	2.86	12.44	2260.	2360.	2460.	2565.
24	19.56	2.92	34.67	42.65	10323.	0.58	***	***	***	***	***	***	***	***	**	**	**	*.
26A	18.09	3.27	35.31	43.33	10487.	0.75	***	***	***	***	***	***	***	***	**	**	**	*.
26H	20.42	3.14	33.92	42.52	10158.	0.77	***	***	***	***	***	***	***	***	**	**	**	*.
27	17.17	5.54	35.04	44.25	10393.	0.85	17.17	60.44	4.12	1.01	0.01	0.85	3.54	12.86	**	**	**	*.
28	18.29	3.02	34.78	43.91	10475.	0.65	***	***	***	***	***	***	***	***	2180.	2240.	2325.	2410.
29	19.79	2.80	34.72	42.66	10372.	0.59	19.79	60.30	4.09	0.83	0.02	0.59	2.80	11.58	**	**	**	*.
30	20.34	2.81	34.63	42.22	10202.	0.53	***	***	***	***	***	***	***	***	**	**	**	*.
40	17.83	4.58	34.05	43.54	10206.	0.63	17.83	58.99	4.08	0.84	***	0.63	4.58	13.05	**	**	**	*.
AVE.	18.80	3.47	34.70	43.05	10310.	0.63	18.80	59.68	4.08	0.85	0.02	0.66	3.44	12.48	2220.	2300.	2393.	2488.
S DEV	1.12	1.14	0.71	0.72	147.	0.10												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

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TABLE 7

FUEL ANALYSIS RESULTS - CONSOLIDATIONS
ABMA TEST SITE A

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
34A	12.72	8.79	33.82	44.67	10534.	0.73	***	***	***	***	***	***	***	***	**	**	**	*.
35A	13.06	7.81	34.37	44.76	10683.	0.35	13.06	62.19	4.11	0.82	0.01	0.35	7.81	11.65	2170.	2265.	2355.	2420.
36	12.72	8.14	34.60	46.54	10920.	0.31	***	***	***	***	***	***	***	***	**	**	**	*.
37	11.29	8.23	34.34	46.14	10768.	0.28	***	***	***	***	***	***	***	***	**	**	**	*.
38	12.87	8.71	33.96	44.46	10479.	0.32	***	***	***	***	***	***	***	***	**	**	**	*.
39	14.28	7.08	33.79	44.25	10386.	0.40	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	12.82	7.69	34.15	45.14	10628.	0.40	13.06	62.19	4.11	0.82	0.01	0.35	7.81	11.65	2170.	2265.	2355.	2420.
S DEV	0.87	0.89	0.31	0.87	181.	0.15												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 1

FUEL ANALYSIS RESULTS - KENTUCKY CUMERLANDS
ABMA TEST SITE B

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
01	2.99	7.58	34.82	54.61	13426.	0.80	***	***	***	***	***	***	***	***	**	**	**	*.
02	3.45	7.15	34.94	54.46	13367.	0.91	***	***	***	***	***	***	***	***	**	**	**	*.
04	1.60	8.85	34.92	54.63	13465.	0.84	***	***	***	***	***	***	***	***	**	**	**	*.
08	4.39	8.83	33.97	52.81	13111.	1.05	4.39	72.66	4.96	0.85	0.15	1.05	8.83	7.11	2320.	2570.	2620.	2700.
09	5.05	5.92	34.90	54.13	13434.	0.93	***	***	***	***	***	***	***	***	**	**	**	*.
19	4.75	8.00	32.53	54.72	13115.	0.87	***	***	***	***	***	***	***	***	**	**	**	*.
20	4.95	8.22	33.81	53.02	12972.	1.06	***	***	***	***	***	***	***	***	**	**	**	*.
23	5.56	7.60	33.31	53.53	13077.	0.91	***	***	***	***	***	***	***	***	**	**	**	*.
25	2.90	10.66	35.38	51.06	12923.	0.91	2.90	72.27	4.98	1.19	0.07	0.91	10.66	7.02	2450.	2660.	2700.	2700.
27	5.30	5.83	33.97	54.90	13266.	0.68	***	***	***	***	***	***	***	***	**	**	**	*.
28	5.98	5.61	33.86	54.33	13318.	0.87	***	***	***	***	***	***	***	***	**	**	**	*.
31	4.36	8.18	34.43	53.03	13150.	0.93	4.36	73.29	4.81	1.10	0.07	0.93	8.18	7.26	2700.	2700.	2700.	2700.
AVE.	4.27	7.72	34.24	53.77	13220.	0.90	3.88	72.74	4.92	1.05	0.10	0.96	9.22	7.13	2490.	2643.	2673.	2700.
S DEV	1.23	1.37	0.78	1.08	180.	0.10												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

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TABLE 7 FUEL ANALYSIS RESULTS - HATFIELDS PAGE 1
ABMA TEST SITE B

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
03	1.90	11.38	34.44	52.28	12960.	0.98	1.90	72.15	4.97	1.48	0.08	0.98	11.38	7.06	2400.	2700.	2700.	2700.
05	1.66	8.78	34.22	55.34	13472.	0.89	***	***	***	***	***	***	***	***	**	**	**	*.
21	4.81	8.42	33.42	53.35	13097.	0.89	***	***	***	***	***	***	***	***	**	**	**	*.
22	5.89	8.26	33.05	52.80	12926.	0.91	***	***	***	***	***	***	***	***	**	**	**	*.
26A	3.25	8.53	34.35	53.87	13235.	0.95	***	***	***	***	***	***	***	***	**	**	**	*.
30	4.71	8.35	32.73	54.21	13222.	0.87	4.71	73.61	4.79	1.38	0.11	0.87	8.35	6.18	2700.	2700.	2700.	2700.
32	5.31	7.79	33.35	53.55	13049.	0.99	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	3.93	8.79	33.65	53.63	13137.	0.93	3.30	72.88	4.88	1.43	0.09	0.92	9.86	6.62	2550.	2700.	2700.	2700.
S DEV	1.55	1.09	0.63	0.92	175.	0.04												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 1 FUEL ANALYSIS RESULTS - SOUTHEAST'S PAGE 1
ARMA TEST SITE B

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2H	FLUID
06	1.99	9.41	33.95	54.65	13011.	0.83	***	***	***	***	***	***	***	***	**	**	**	*.
07	1.06	6.48	35.60	56.84	13981.	0.82	1.06	78.06	5.25	1.37	0.13	0.82	6.48	6.79	2700.	2700.	2700.	2700.
10	3.64	5.66	35.24	55.46	13696.	0.71	***	***	***	***	***	***	***	***	**	**	**	*.
24	5.03	16.79	30.97	47.21	11667.	0.75	5.03	65.56	4.44	1.30	0.10	0.75	16.79	6.03	2520.	2700.	2700.	2700.
33	2.75	6.77	35.17	55.31	13649.	0.74	2.75	79.31	5.06	1.11	0.15	0.74	6.77	7.00	2600.	2700.	2700.	2700.
AVE.	2.90	9.02	34.19	53.89	13201.	0.76	2.95	74.34	4.92	1.26	0.13	0.79	10.01	6.61	2607.	2700.	2700.	2700.
S DEV	1.36	4.08	1.70	3.42	830.	0.04												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 1

FUEL ANALYSIS RESULTS - RELOADS
ABMA TEST SITE B

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
11	1.99	5.08	35.44	57.49	14077.	0.75	***	***	***	***	***	***	***	***	**	**	**	*.
12	4.70	6.50	34.88	53.86	13368.	0.85	***	***	***	***	***	***	***	***	**	**	**	*.
15	5.48	6.47	34.21	53.84	13181.	0.71	5.48	74.11	4.99	1.44	0.12	0.71	6.47	6.68	2700.	2700.	2700.	2700.
16	6.40	6.96	33.73	52.85	13001.	0.75	6.46	72.78	4.88	1.45	0.11	0.75	6.96	6.61	2700.	2700.	2700.	2700.
17	3.20	6.99	35.28	54.53	13535.	0.77	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	4.36	6.40	34.71	54.51	13432.	0.77	5.97	73.44	4.93	1.44	0.12	0.73	6.72	6.64	2700.	2700.	2700.	2700.
S DEV	1.60	0.70	0.65	1.58	369.	0.05												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7

FUEL ANALYSIS RESULTS - EASTERN LOW FUSIONS
ABMA TEST SITE C

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
08	6.87	12.52	34.86	45.75	11810.	2.51	***	***	***	***	***	***	***	***	**	**	**	*.
09	5.86	12.01	36.50	45.63	11974.	3.05	***	***	***	***	***	***	***	***	**	**	**	*.
10	6.47	10.73	35.55	47.25	12111.	2.89	***	***	***	***	***	***	***	***	**	**	**	*.
11	6.53	10.81	34.50	48.16	11992.	2.65	***	***	***	***	***	***	***	***	**	**	**	*.
12	5.99	10.43	34.81	48.77	12184.	2.70	***	***	***	***	***	***	***	***	**	**	**	*.
13	5.88	13.75	33.77	46.60	11607.	5.00	***	***	***	***	***	***	***	***	**	**	**	*.
14	3.48	10.45	35.86	49.71	12678.	2.74	***	***	***	***	***	***	***	***	**	**	**	*.
15	4.63	10.19	35.53	49.65	12539.	3.00	***	***	***	***	***	***	***	***	**	**	**	*.
16	4.38	12.23	33.69	49.70	12340.	2.44	***	***	***	***	***	***	***	***	**	**	**	*.
19	4.89	10.27	33.92	50.92	12500.	2.25	***	***	***	***	***	***	***	***	**	**	**	*.
20	4.18	10.54	35.79	49.49	12576.	2.85	***	***	***	***	***	***	***	***	**	**	**	*.
46	4.54	9.66	35.49	50.31	12831.	2.57	4.54	71.46	4.79	1.04	0.07	2.57	9.66	5.87	2060.	2180.	2310.	2430.
AVE.	5.31	11.17	35.02	48.49	12262.	2.89	4.54	71.46	4.79	1.04	0.07	2.57	9.66	5.87	2060.	2180.	2310.	2430.
S DEV	1.04	1.14	0.87	1.72	360.	0.67												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7

FUEL ANALYSIS RESULTS - WESTERN$
ABMA TEST SITE C

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
23	25.35	9.02	29.36	36.27	8480.	0.86	***	***	***	***	***	***	***	***	**	**	**	*.
24	26.02	8.20	28.28	37.50	8527.	0.67	***	***	***	***	***	***	***	***	**	**	**	*.
25	26.25	8.18	28.11	37.46	8558.	0.53	***	***	***	***	***	***	***	***	**	**	**	*.
26	26.35	9.15	27.97	36.53	8407.	0.99	***	***	***	***	***	***	***	***	**	**	**	*.
27	23.50	8.88	30.09	37.53	8877.	0.99	***	***	***	***	***	***	***	***	**	**	**	*.
28	25.46	12.14	27.82	34.00	8060.	0.54	***	***	***	***	***	***	***	***	**	**	**	*.
29	25.77	9.19	29.08	35.96	8419.	0.59	***	***	***	***	***	***	***	***	**	**	**	*.
35	26.10	9.22	30.81	33.87	8502.	0.81	***	***	***	***	***	***	***	***	**	**	**	*.
36	26.02	8.50	28.69	36.79	8388.	0.64	***	***	***	***	***	***	***	***	**	**	**	*.
40	26.05	8.56	28.95	36.44	8417.	0.72	***	***	***	***	***	***	***	***	**	**	**	*.
44	24.12	8.63	29.59	37.66	8823.	0.56	24.12	51.96	3.37	1.00	0.02	0.56	8.63	10.34	2175.	2240.	2290.	2330.
45	26.57	8.59	28.59	36.25	8457.	0.54	26.57	49.90	3.17	1.04	0.01	0.54	8.59	10.18	2190.	2250.	2325.	2395.
AVE.	25.63	9.02	28.94	36.35	8493.	0.70	25.35	50.93	3.27	1.02	0.02	0.55	8.61	10.26	2183.	2245.	2308.	2363.
S DEV	0.89	1.00	0.86	1.22	200.	0.16												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7 FUEL ANALYSIS RESULTS - EASTERN HIGH FUSIONS PAGE 1
ABMA TEST SITE C

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
41	9.72	8.29	31.73	50.26	11944.	0.74	***	***	***	***	***	***	***	***	**	**	**	*.
42	9.38	10.45	29.79	49.88	11513.	0.93	***	***	***	***	***	***	***	***	**	**	**	*.
43	8.17	8.49	31.31	52.03	12106.	0.96	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	9.09	9.24	30.94	50.72	11654.	0.88	***	***	***	***	***	***	***	***	**	**	**	*.
S DEV	0.67	1.21	0.83	0.94	250.	0.10												

FOR THE VARIABLE CL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7

FUEL ANALYSIS RESULTS - PERFECT 8s
ABMA TEST SITE D

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
02	2.69	8.44	39.47	49.40	13124.	2.35	2.69	72.89	5.08	1.27	0.13	2.35	8.44	7.15	**	**	**	*.
03	3.37	9.26	38.98	48.39	12835.	2.54	3.37	71.25	5.02	1.24	0.12	2.54	9.26	7.20	**	**	**	*.
04	3.23	8.08	39.45	49.24	13081.	2.79	3.23	72.71	5.06	1.27	0.12	2.79	8.08	6.74	**	**	**	*.
05	3.10	8.47	39.53	48.90	13034.	2.44	3.10	72.38	5.10	1.24	0.11	2.44	8.47	7.16	**	**	**	*.
06	3.06	8.63	39.83	48.29	13034.	2.85	3.06	72.32	4.97	1.09	0.11	2.85	8.63	6.77	**	**	**	*.
07	3.35	9.00	39.15	48.50	12978.	2.57	3.35	71.80	5.01	1.12	0.12	2.57	9.00	7.03	**	**	**	*.
08	3.04	8.65	39.01	49.30	13084.	2.59	3.04	72.44	4.96	1.24	0.13	2.59	8.65	6.95	**	**	**	*.
09	3.40	8.24	39.16	49.20	13068.	2.23	3.40	72.05	5.04	1.32	0.12	2.23	8.24	7.60	**	**	**	*.
10	3.45	8.13	39.17	49.25	13019.	2.50	3.45	72.38	5.02	1.33	0.10	2.50	8.13	7.09	**	**	**	*.
12	3.50	9.14	37.90	49.46	12935.	2.82	3.50	71.14	4.90	1.31	0.12	2.82	9.14	7.07	**	**	**	*.
13	3.31	9.57	39.22	47.90	12839.	2.94	3.31	71.40	4.91	1.15	0.12	2.94	9.57	6.60	**	**	**	*.
AVE.	3.23	8.71	39.17	48.89	13003.	2.60	3.23	72.07	5.01	1.23	0.12	2.60	8.71	7.03	**	**	**	*.
% DEV	0.23	0.47	0.47	0.51	92.	0.21												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7 FUEL ANALYSIS RESULTS - CENTURY8 PAGE 1
ARMA TEST SITE D

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
14	3.09	6.86	38.75	51.30	13342.	2.04	3.09	74.52	5.02	1.26	0.10	2.04	6.86	7.11	**	**	**	*.
15	2.69	4.92	39.14	53.25	13829.	1.15	2.69	77.18	5.24	1.23	0.13	1.15	4.92	7.46	**	**	**	*.
16	2.62	5.89	37.96	53.53	13622.	1.11	2.62	75.62	5.14	1.32	0.13	1.11	5.89	8.17	**	**	**	*.
17	2.59	5.66	37.96	53.79	13691.	0.86	2.59	76.63	5.15	1.34	0.15	0.86	5.66	7.62	**	**	**	*.
18	2.39	5.99	38.39	53.23	13662.	0.98	2.39	76.46	5.19	1.50	0.13	0.98	5.99	7.36	**	**	**	*.
AVE.	2.68	5.86	38.44	53.02	13629.	1.23	2.68	76.08	5.15	1.33	0.13	1.23	5.86	7.54	**	**	**	*.
S DEV	0.23	0.62	0.46	0.88	160.	0.42												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7 FUEL ANALYSIS RESULTS - VICTORIAS PAGE 1
ABMA TEST SITE D

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
22	3.05	6.47	37.43	53.05	13453.	1.10	3.05	75.08	4.98	1.27	0.06	1.10	6.47	7.99	2480.	2700.	2700.	2700.
23	3.16	6.96	37.06	52.82	13357.	1.11	3.16	74.84	5.02	1.32	0.07	1.11	6.96	7.52	2700.	2700.	2700.	2700.
AVE.	3.10	6.72	37.24	52.93	13405.	1.10	3.10	74.96	5.00	1.30	0.06	1.10	6.72	7.76	2590.	2700.	2700.	2700.
S DEV	0.05	0.24	0.18	0.11	48.	****												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7 FUEL ANALYSIS RESULTS - KENTUCKY INDUSTRIALS PAGE 1
ABMA TEST SITE E

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
02	4.63	5.89	36.78	52.70	13651.	0.86	4.63	74.94	4.99	1.51	0.20	0.86	5.89	6.98	**	**	**	*.
03	6.52	8.68	34.51	50.29	12546.	0.96	6.52	70.87	4.75	1.29	0.17	0.96	8.68	6.76	**	**	**	*.
04	5.77	6.71	35.44	52.08	12942.	0.74	5.77	72.97	4.89	1.47	0.09	0.74	6.71	7.36	**	**	**	*.
05	8.13	10.24	33.03	48.60	12021.	0.85	8.13	67.74	4.59	1.31	0.14	0.85	10.24	7.00	**	**	**	*.
06	6.70	9.70	32.53	51.06	12417.	0.85	6.70	70.15	4.60	1.25	0.12	0.85	9.71	6.62	**	**	**	*.
07	4.71	9.89	32.97	52.33	12957.	1.01	4.81	72.43	4.67	0.94	0.10	1.01	9.89	6.15	**	**	**	*.
08	4.65	5.80	47.67	41.88	13519.	0.73	4.65	75.98	5.01	1.20	0.15	0.73	5.80	6.48	**	**	**	*.
09	5.27	10.25	32.77	51.71	12666.	0.77	5.27	71.53	4.58	1.44	0.09	0.77	10.25	6.07	**	**	**	*.
11	5.23	10.19	33.73	50.85	12790.	0.89	5.23	71.43	4.70	1.49	0.17	0.89	1.01	5.90	**	**	**	*.
17	7.11	8.07	33.81	51.01	12530.	0.82	7.11	70.66	4.65	1.19	0.08	0.82	8.07	7.42	**	**	**	*.
20	8.61	8.33	32.38	50.68	12460.	0.99	8.61	69.84	4.58	1.19	0.08	0.99	8.33	6.33	**	**	**	*.
AVE.	6.12	8.52	35.06	50.29	12773.	0.86	6.13	71.69	4.73	1.30	0.13	0.86	7.69	6.64	**	**	**	*.
S DEV	1.34	1.65	4.19	2.87	457.	0.09												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7 FUEL ANALYSIS RESULTS - CRUSHED$ PAGE 1
ABMA TEST SITE E

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
12	6.09	8.76	33.00	52.15	12793.	0.78	6.09	71.65	4.72	1.44	0.21	0.78	8.76	6.35	**	**	**	*.
13	5.93	10.35	33.38	50.34	12565.	0.68	5.93	70.56	4.61	1.31	0.14	0.68	10.35	6.42	**	**	**	*.
14	5.04	8.13	34.12	52.71	13135.	0.67	5.04	73.64	4.82	1.32	0.08	0.67	8.13	6.30	**	**	**	*.
AVE.	5.69	9.08	33.50	51.73	12831.	0.71	5.69	71.95	4.72	1.36	0.14	0.71	9.08	6.36	**	**	**	*.
S DEV	0.46	0.93	0.47	1.01	234.	0.05												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7 FUEL ANALYSIS RESULTS - EAST KENTUCKY$ PAGE 1
ABMA TEST SITE E

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
15	5.04	8.41	34.92	51.63	12958.	0.81	5.04	72.59	4.80	1.39	0.09	0.81	8.41	6.87	**	**	**	*.
16	7.57	8.01	34.02	50.40	12486.	0.74	7.57	70.02	4.60	0.86	0.07	0.74	8.01	8.13	**	**	**	*.
AVE.	6.30	8.21	34.47	51.01	12722.	0.77	6.30	71.30	4.70	1.13	0.08	0.77	8.21	7.50	**	**	**	*.
S DEV	1.26	0.20	0.45	0.62	236.	0.03												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7 FUEL ANALYSIS RESULTS - PENNSYLVANIA AS ASHA TEST SITE F

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
05	4.80	10.80	14.03	70.37	13145.	1.34	***	***	***	***	***	***	***	***	**	**	**	*.
15	5.69	10.96	22.86	60.49	12975.	1.20	***	***	***	***	***	***	***	***	**	**	**	*.
17	5.26	9.69	23.86	61.19	13223.	1.24	***	***	***	***	***	***	***	***	**	**	**	*.
18	5.58	12.50	22.66	59.26	12649.	1.43	***	***	***	***	***	***	***	***	**	**	**	*.
19	7.76	11.08	22.45	58.71	12501.	1.35	***	***	***	***	***	***	***	***	**	**	**	*.
20	2.26	8.43	25.22	64.09	13813.	1.61	***	***	***	***	***	***	***	***	**	**	**	*.
21	1.99	11.15	62.87	23.99	13347.	1.85	***	***	***	***	***	***	***	***	**	**	**	*.
22	3.13	9.44	23.58	63.85	13627.	1.51	3.13	76.57	4.69	1.26	0.15	1.51	9.44	3.25	2420.	2600.	2650.	2700.
23A	2.26	9.45	24.20	64.07	13750.	1.66	***	***	***	***	***	***	***	***	**	**	**	*.
23B	2.51	11.01	23.92	62.56	13467.	1.67	***	***	***	***	***	***	***	***	**	**	**	*.
24	3.42	11.59	23.12	61.67	13164.	1.32	3.42	73.70	4.53	1.20	0.14	1.32	11.59	4.10	2700.	2700.	2700.	2700.
AVE.	4.06	10.55	26.27	59.11	13242.	1.47	3.27	75.13	4.61	1.23	0.14	1.41	10.51	3.68	2560.	2650.	2675.	2700.
S DEV	1.78	1.11	11.91	11.51	402.	0.20												

FOR THE VARIABLE COL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7

FUEL ANALYSIS RESULTS - PENNSYLVANIA BS
ABMA TEST SITE F

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
29	3.54	8.79	26.10	61.57	13623.	1.00	3.54	76.62	4.70	1.15	0.17	1.00	8.79	4.03	2700.	2700.	2700.	2700.
30	3.84	9.12	25.39	61.65	13568.	0.99	3.84	76.09	4.68	1.09	0.17	0.99	9.12	4.02	2700.	2700.	2700.	2700.
35	4.17	10.25	25.54	60.04	13315.	1.01	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	3.85	9.39	25.68	61.09	13502.	1.00	3.69	76.35	4.69	1.12	0.17	0.99	8.95	4.02	2700.	2700.	2700.	2700.
S DEV	0.26	0.63	0.31	0.78	134.	0.01												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7 FUEL ANALYSIS RESULTS - WHITE ASHS PAGE 1
ABMA TEST SITE G

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
02	4.55	9.44	35.68	50.33	12639.	0.72	***	***	***	***	***	***	***	***	**	**	**	*.
03	4.40	5.91	35.79	53.90	13224.	0.81	***	***	***	***	***	***	***	***	**	**	**	*.
04	5.57	7.65	34.66	52.12	12864.	0.60	***	***	***	***	***	***	***	***	**	**	**	*.
05	7.56	10.05	31.80	50.59	12036.	0.85	***	***	***	***	***	***	***	***	**	**	**	*.
06	3.16	7.05	37.23	52.56	13254.	0.86	***	***	***	***	***	***	***	***	**	**	**	*.
09	4.32	7.24	36.72	51.72	13117.	0.81	4.32	73.76	4.90	0.84	0.12	0.81	7.24	8.01	2700.	2700.	2700.	2700.
10	3.90	8.57	34.89	52.64	12837.	0.93	***	***	***	***	***	***	***	***	**	**	**	*.
15	4.22	9.50	34.95	51.33	12649.	0.68	4.22	71.62	4.66	1.12	0.07	0.68	9.50	8.13	2700.	2700.	2700.	2700.
16	4.02	7.63	34.86	53.49	12965.	0.74	***	***	***	***	***	***	***	***	**	**	**	*.
17	3.88	7.41	35.33	53.00	13103.	0.82	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	4.56	8.04	35.19	52.17	12869.	0.78	4.27	72.69	4.78	0.98	0.09	0.74	8.37	8.07	2700.	2700.	2700.	2700.
S DEV	1.16	1.24	1.38	1.12	346.	0.09												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7

FUEL ANALYSIS RESULTS - SPURLOCKS
ABMA TEST SITE G

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
07	3.12	4.57	39.33	52.98	13797.	1.16	***	***	***	***	***	***	***	***	**	**	**	*.
08	2.91	4.27	38.62	54.20	13922.	1.46	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	3.01	4.42	38.97	53.59	13860.	1.31	***	***	***	***	***	***	***	***	**	**	**	*.
S DEV	0.11	0.15	0.36	0.61	63.	0.15												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7

FUEL ANALYSIS RESULTS - PEVLERS
ABMA TEST SITE G

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
18	5.04	8.94	34.03	51.99	12488.	0.69	***	***	***	***	***	***	***	***	**	**	**	*.
19	4.53	6.52	36.91	52.04	12989.	0.85	***	***	***	***	***	***	***	***	**	**	**	*.
20	4.81	6.95	36.47	51.77	12860.	0.69	4.81	72.43	4.90	1.04	0.05	0.69	6.95	9.13	2700.	2700.	2700.	2700.
22	4.69	7.17	37.65	50.49	12881.	0.78	***	***	***	***	***	***	***	***	**	**	**	*.
23	4.56	7.15	36.83	51.46	12830.	0.83	***	***	***	***	***	***	***	***	**	**	**	*.
24	3.93	7.19	35.87	53.01	12945.	0.69	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	4.59	7.32	36.29	51.79	12832.	0.75	4.81	72.43	4.90	1.04	0.05	0.69	6.95	9.13	2700.	2700.	2700.	2700.
S DEV	0.34	0.76	1.14	0.75	163.	0.07												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7

FUEL ANALYSIS RESULTS - SANDS HILLS
ABMA TEST SITE H

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
03	10.76	7.10	35.88	46.26	11773.	1.57	***	***	***	***	***	***	***	***	**	**	**	*.
05	13.01	8.73	33.53	44.73	11421.	1.97	***	***	***	***	***	***	***	***	**	**	**	*.
06	12.31	12.34	33.43	41.92	10577.	1.82	12.31	59.29	4.15	1.04	0.09	1.82	12.34	8.96	2400.	2550.	2590.	2700.
08	11.19	9.62	36.21	42.98	11201.	2.21	***	***	***	***	***	***	***	***	**	**	**	*.
09	10.90	8.38	34.42	46.30	11566.	2.21	***	***	***	***	***	***	***	***	**	**	**	*.
11	11.20	5.52	37.51	45.77	11963.	1.62	11.20	67.17	4.56	1.11	0.05	1.62	5.52	8.77	2010.	2175.	2215.	2495.
AVE.	11.56	8.61	35.16	44.66	11417.	1.90	11.75	63.23	4.35	1.07	0.07	1.72	8.93	8.86	2205.	2363.	2403.	2598.
S DEV	0.82	2.11	1.49	1.67	447.	0.26												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 1 FUEL ANALYSIS RESULTS - OHIO5 PAGE 1
ABMA TEST SITE 1

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	MHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
01	4.08	10.09	37.45	48.40	12634.	3.50	***	***	***	***	***	***	***	***	**	**	**	*.
02	3.76	9.05	38.10	49.09	12757.	3.14	***	***	***	***	***	***	***	***	**	**	**	*.
03	3.28	9.15	37.96	49.61	12881.	2.81	***	***	***	***	***	***	***	***	**	**	**	*.
04	3.50	10.37	38.61	47.52	12660.	2.85	***	***	***	***	***	***	***	***	**	**	**	*.
05	2.64	10.58	38.05	48.68	12739.	2.98	***	***	***	***	***	***	***	***	**	**	**	*.
06	2.67	9.38	37.84	50.11	13024.	2.28	***	***	***	***	***	***	***	***	**	**	**	*.
09	2.96	8.37	38.15	50.52	13306.	1.88	2.96	72.62	4.97	1.26	0.40	1.88	8.37	7.54	**	**	**	*.
AVE.	3.28	9.57	38.02	49.13	12658.	2.77	2.96	72.62	4.97	1.26	0.40	1.88	8.37	7.54	**	**	**	*.
S DEV	0.50	0.70	0.33	0.96	222.	0.50												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7

FUEL ANALYSIS RESULTS - KENTUCKY8
ABMA TEST SITE 1

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
10	2.47	5.23	39.38	52.92	14053.	1.43	2.47	76.57	5.34	1.51	0.13	1.43	5.23	7.32	**	**	**	*.
14	2.10	7.32	37.87	52.71	13558.	1.75	***	***	***	***	***	***	***	***	**	**	**	*.
15	2.50	6.14	38.38	52.98	13687.	1.46	***	***	***	***	***	***	***	***	**	**	**	*.
18	1.97	5.45	39.53	53.05	13995.	1.33	1.97	77.88	5.22	1.49	0.13	1.33	5.45	6.53	2065.	2235.	2415.	2575.
AVE.	2.26	6.03	38.79	52.91	13823.	1.49	2.22	77.23	5.28	1.50	0.13	1.38	5.34	6.92	2065.	2235.	2415.	2575.
S DEV	0.23	0.81	0.69	0.13	207.	0.16												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

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TABLE 7 FUEL ANALYSIS RESULTS - OHIO$ PAGE 1
ABMA TEST SITE J

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
01	2.89	6.31	37.45	53.37	13572.	1.06	***	***	***	***	***	***	***	***	**	**	**	*.
02	3.12	7.06	37.62	52.20	13405.	1.52	***	***	***	***	***	***	***	***	**	**	**	*.
05	4.44	10.22	37.19	48.15	12570.	2.18	***	***	***	***	***	***	***	***	**	**	**	*.
07	2.95	7.11	38.89	51.07	13373.	1.68	***	***	***	***	***	***	***	***	**	**	**	*.
13	4.85	8.23	36.71	50.21	12810.	1.64	***	***	***	***	***	***	***	***	**	**	**	*.
14	3.18	8.23	38.91	49.68	13101.	1.82	***	***	***	***	***	***	***	***	**	**	**	*.
16	3.73	7.77	38.06	50.44	12990.	2.02	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	3.59	7.85	37.85	50.73	13117.	1.70	***	***	***	***	***	***	***	***	**	**	**	*.
S DEV	0.72	1.16	0.78	1.57	331.	0.34												

FOR THE VARIABLE CL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7 FUEL ANALYSIS RESULTS - KENTUCKY8 PAGE 1
ABMA TEST SITE J

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
06	2.02	4.18	40.58	53.22	13966.	1.30	***	***	***	***	***	***	***	***	**	**	**	*.
08	1.94	5.31	40.35	52.40	13995.	1.40	***	***	***	***	***	***	***	***	**	**	**	*.
09	2.91	11.76	35.85	49.48	12511.	2.57	***	***	***	***	***	***	***	***	**	**	**	*.
15	2.09	5.02	39.58	53.31	13954.	1.03	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	2.24	6.57	39.09	52.10	13607.	1.57	***	***	***	***	***	***	***	***	**	**	**	*.
S DEV	0.39	3.03	1.91	1.56	633.	0.59												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7 FUEL ANALYSIS RESULTS - ALABAMA WASHEDS
ABMA TEST SITE K

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
01	5.34	5.55	37.85	51.26	13188.	1.14	***	***	***	***	***	***	***	***	**	**	**	*.
02	7.25	5.17	39.31	48.27	12942.	0.29	***	***	***	***	***	***	***	***	**	**	**	*.
03	6.45	4.03	37.58	51.94	13261.	1.44	***	***	***	***	***	***	***	***	**	**	**	*.
04	7.40	3.32	38.10	51.18	13209.	1.03	***	***	***	***	***	***	***	***	**	**	**	*.
05	6.00	3.44	38.15	52.41	13438.	1.03	***	***	***	***	***	***	***	***	**	**	**	*.
06	7.13	5.30	36.20	51.37	12868.	2.67	***	***	***	***	***	***	***	***	**	**	**	*.
07	7.63	4.55	36.86	50.96	13023.	0.91	***	***	***	***	***	***	***	***	**	**	**	*.
08	7.44	3.45	36.53	52.58	13170.	0.86	***	***	***	***	***	***	***	***	**	**	**	*.
09	5.99	5.19	37.04	51.78	13171.	0.95	***	***	***	***	***	***	***	***	**	**	**	*.
10	5.41	4.44	37.71	52.44	13397.	1.13	***	***	***	***	***	***	***	***	**	**	**	*.
11	6.44	3.51	37.37	52.68	13348.	1.21	***	***	***	***	***	***	***	***	**	**	**	*.
18	6.80	3.91	37.42	51.87	13168.	1.39	6.80	73.85	5.00	1.55	0.07	1.39	3.91	7.43	2100.	2280.	2310.	2600.
AVE.	6.61	4.32	37.51	51.56	13182.	1.17	6.80	73.85	5.00	1.55	0.07	1.39	3.91	7.43	2100.	2280.	2310.	2600.
S DEV	0.76	0.79	0.79	1.14	165.	0.53												

FOR THE VARIABLE LCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7

FUEL ANALYSIS RESULTS - ALABAMA UNWASHED$
ABMA TEST SITE K

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
12	5.99	8.40	34.48	51.13	12601.	1.19	***	***	***	***	***	***	***	***	**	**	**	*.
13	6.59	8.35	33.70	51.36	12468.	0.96	***	***	***	***	***	***	***	***	**	**	**	*.
14	6.00	13.96	32.88	47.16	11770.	0.88	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	6.19	10.24	33.69	49.88	12280.	1.01	***	***	***	***	***	***	***	***	**	**	**	*.
S DEV	0.28	2.63	0.65	1.93	364.	0.15												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 7

FUEL ANALYSIS RESULTS - ALABAMA CRUSHED
ABMA TEST SITE K

TEST NO.	PROXIMATE, WEIGHT % AS FIRED						ULTIMATE, WEIGHT % AS FIRED								ASH FUSION(RED.), F			
	MOIST	ASH	VOL	FC	HHV	SUL	MOIST	C	H	N	CL	S	ASH	O2	ID	H=W	H=1/2W	FLUID
15	7.97	4.57	36.85	50.61	12936.	1.13	***	***	***	***	***	***	***	***	**	**	**	*.
16	6.82	4.19	37.23	51.76	13148.	1.35	***	***	***	***	***	***	***	***	**	**	**	*.
17	7.27	5.28	36.07	51.38	12897.	1.44	***	***	***	***	***	***	***	***	**	**	**	*.
AVE.	7.35	4.68	36.72	51.25	12994.	1.31	***	***	***	***	***	***	***	***	**	**	**	*.
S DEV	0.47	0.45	0.48	0.48	110.	0.13												

FOR THE VARIABLE CCL, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 8 OVERFIRE AIR AND FLY ASH REINJECTION CONFIGURATIONS

ABMA TEST SITE A

TEST NO.	FRONT UPPER "H2O	FRONT LOWER "H2O	REAR UPPER "H2O	REAR LOWER "H2O	BLR HPR REINJ "H2O	DC HPR REINJ "H2O	OTHER REINJ "H2O	BLR HPR REINJ %	ECON HPR REINJ %	DC HPR REINJ %
01	3.6	6.0	***	10.2	***	***	***	**	**	**
03	3.6	5.6	***	9.7	***	***	***	**	**	**
04	3.5	5.6	***	10.3	***	***	***	**	**	**
05	3.8	5.9	***	10.9	***	***	***	**	**	**
06	4.0	6.2	***	11.4	***	***	***	**	**	**
08A	3.8	6.0	***	10.9	***	***	***	**	**	**
08B	3.8	6.0	***	10.9	***	***	***	**	**	**
10	3.3	5.3	***	9.5	***	***	***	**	**	**
12	3.3	5.3	***	9.5	***	***	***	**	**	**
13A	4.0	6.5	***	12.0	***	***	***	**	**	**
13B	4.0	6.5	***	12.0	***	***	***	**	**	**
14A	4.1	6.4	***	11.6	***	***	***	**	**	**
14B	4.1	6.4	***	11.6	***	***	***	**	**	**
16	3.7	5.9	***	10.2	***	***	***	**	**	**
17A	3.6	5.6	***	11.1	***	***	***	**	**	**
17B	3.6	5.6	***	11.1	***	***	***	**	**	**
18A	5.1	5.9	***	9.4	***	***	***	**	**	**
18B	5.0	6.8	***	9.2	***	***	***	**	**	**
19	4.9	6.8	***	9.0	***	***	***	**	**	**
20	5.3	5.0	***	2.3	***	***	***	**	**	**
21	5.0	5.0	2.7	5.0	***	5.0	***	**	**	**
22	5.0	5.0	5.0	3.1	***	9.8	***	100.	100.	100.
23	5.0	5.8	5.0	2.7	***	9.0	***	100.	100.	100.
24	6.1	5.0	5.0	2.7	***	6.0	***	**	**	**
25A	5.4	5.2	4.0	2.3	***	6.0	6.7	**	**	**
25B	9.0	9.0	9.0	9.0	***	6.0	6.7	**	**	**
26A	6.0	6.0	6.0	6.0	8.8	6.0	6.5	**	**	**
26B	6.0	6.0	6.0	6.0	8.7	6.0	6.5	**	**	**
27	6.0	6.0	6.0	6.0	8.5	5.0	6.5	**	**	**
28	4.0	4.0	4.0	4.0	8.8	8.3	7.5	**	**	**
29	8.9	9.0	9.3	9.0	7.5	7.0	7.1	**	**	**
30	8.7	8.5	9.1	8.9	8.1	7.3	7.0	**	**	**
31A	4.9	5.2	5.0	5.0	9.0	7.0	8.0	**	**	**
31B	5.2	1.9	6.0	5.5	9.0	7.0	7.0	**	**	**
31C	4.3	9.6	4.8	5.0	9.0	7.0	7.0	**	**	**
31D	4.8	5.1	5.0	5.0	9.0	6.5	7.5	**	**	**
31E	2.0	5.2	5.5	5.2	9.0	7.2	7.0	**	**	**
31F	10.0	5.0	5.5	5.0	9.0	6.5	7.0	**	**	**
32	11.8	10.2	12.8	10.7	7.5	5.0	6.5	**	**	**
34A	10.7	10.5	10.4	10.7	7.5	5.7	6.2	**	**	**
34B	10.7	10.5	10.4	10.7	7.5	5.7	6.2	**	**	**
35A	5.8	5.2	6.0	5.0	8.7	8.0	7.0	**	**	**
35B	5.8	5.2	6.0	5.0	8.5	8.0	7.0	**	**	**
36	5.0	5.0	6.5	2.7	8.7	7.0	7.0	**	**	**
37	5.0	5.0	6.0	2.8	8.5	8.2	7.0	100.	100.	100.
38	10.4	10.3	10.5	10.5	7.5	4.8	5.9	**	**	**
39	3.0	3.0	3.0	3.0	9.0	5.5	6.4	**	**	**
40	5.7	5.3	5.9	5.4	9.0	5.4	8.9	**	**	**

FOR THE VARIABLES ROH, ROC AND ROH, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 8 OVERFIRE AIR AND FLY ASH REINJECTION CONFIGURATIONS PAGE 1

ABMA TEST SITE B

TEST NO.	FRONT UPPER "H2O	FRONT LOWER "H2O	REAR UPPER "H2O	REAR LOWER "H2O	BLR HPR REINJ "H2O	DC HPR REINJ "H2O	OTHER REINJ "H2O	BLR HPR REINJ %	ECON HPR REINJ %	DC HPR REINJ %
01	7.3	4.2	22.7	25.3	5.2	5.2	***	**	**	**
02	7.5	4.5	22.5	25.5	5.3	5.5	***	**	**	**
03	6.5	4.5	22.2	24.8	4.8	5.2	***	**	**	**
04	7.5	4.5	22.5	25.1	5.0	5.1	***	**	**	**
05	6.4	4.5	22.2	24.8	4.7	5.0	***	**	**	**
06	8.0	5.0	23.0	26.5	5.3	4.8	***	**	**	**
07	8.0	5.0	6.0	12.0	6.5	5.5	***	**	**	**
08	7.4	5.0	29.0	27.0	5.3	3.2	***	**	**	**
09	7.5	5.0	26.3	28.3	5.8	5.0	***	**	**	**
10A	7.2	4.7	27.2	28.8	5.8	7.5	***	**	**	**
10B	7.2	4.7	27.2	28.8	5.8	7.5	***	**	**	**
10C	7.2	4.7	27.2	28.8	5.8	7.5	***	**	**	**
10D	7.2	4.7	27.2	28.8	5.8	7.5	***	**	**	**
11	7.4	4.9	27.3	29.0	6.0	2.0	***	**	**	**
12	7.5	5.0	5.2	11.0	6.3	2.0	***	**	**	**
13A	7.4	4.7	33.6	34.5	6.0	3.0	***	**	**	**
13B	7.4	4.7	33.6	34.5	6.0	3.0	***	**	**	**
13C	7.4	4.7	33.6	34.5	6.0	3.0	***	**	**	**
14A	7.8	4.8	26.3	29.0	6.5	5.3	***	**	**	**
14B	7.8	4.8	26.3	29.0	6.5	5.3	***	**	**	**
14C	7.8	4.8	26.3	29.0	6.5	5.3	***	**	**	**
14D	7.8	4.8	26.3	29.0	6.5	5.3	***	**	**	**
15	8.0	5.6	25.0	28.0	6.3	4.7	***	**	**	**
16	8.0	5.3	29.0	31.2	6.1	10.6	***	**	**	**
17	7.6	5.5	26.5	29.0	6.5	5.1	***	**	**	**
18	7.5	4.5	26.4	29.2	6.1	3.7	***	**	**	**
19	8.0	5.2	24.0	27.0	6.5	3.8	***	**	**	**
20	8.0	5.0	23.5	27.1	6.0	5.0	***	**	**	**
21	8.0	5.0	23.5	26.5	6.0	4.5	***	**	**	**
22	8.0	5.0	5.2	10.2	6.0	6.0	***	**	**	**
23	8.3	5.0	27.3	30.2	6.3	0.7	***	100.	**	49.
24	8.1	5.0	31.1	32.9	9.2	8.0	***	**	**	**
25	8.0	5.0	30.4	32.4	6.8	6.3	***	**	**	**
26A	8.1	5.0	29.4	32.0	7.0	9.2	***	**	**	**
26C	8.0	5.0	28.5	31.0	7.0	8.0	***	**	**	**
27	8.0	5.1	26.5	29.3	7.0	8.0	***	**	**	**
28	8.0	19.6	24.3	27.1	7.0	7.0	***	**	**	**
29	8.0	5.0	25.5	28.0	6.8	8.0	***	**	**	**
30	8.0	5.0	26.0	28.0	7.0	8.0	***	**	**	**
31	8.0	5.0	25.9	26.5	6.8	8.0	***	**	**	**
32	8.0	5.0	23.0	22.5	7.0	8.0	***	**	**	**
33	6.5	4.2	21.2	24.1	4.7	6.7	***	**	**	**

FOR THE VARIABLES RoH,RUC AND RUH, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 8

OVERFIRE AIR AND FLY ASH REINJECTION CONFIGURATIONS

ABMA TEST SITE C

TEST NO.	FRONT UPPER "H2O	FRONT LOWER "H2O	REAR UPPER "H2O	REAR LOWER "H2O	BLR HPR REINJ "H2O	DC HPR REINJ "H2O	OTHER REINJ "H2O	BLR HPR REINJ %	ECON HPR REINJ %	DC HPR REINJ %
01	19.2	4.1	0.9	4.2	8.6	4.7	***	100.	**	70.
05A	20.4	18.5	22.3	16.8	9.6	16.4	***	100.	**	70.
05B	20.4	18.5	22.3	16.8	9.6	16.4	***	100.	**	70.
05C	20.4	18.5	22.3	16.8	9.6	16.4	***	100.	**	70.
06A	8.1	7.4	9.1	6.7	6.4	11.1	***	100.	**	70.
06B	8.1	7.4	9.1	6.7	6.4	11.1	***	100.	**	70.
06C	8.1	7.4	9.1	6.7	6.4	11.1	***	100.	**	70.
07A	13.4	12.0	14.9	11.1	7.9	13.5	***	100.	**	70.
07B	3.6	2.8	22.9	17.0	9.0	16.7	***	100.	**	70.
07C	15.8	15.6	1.4	1.7	9.4	14.8	***	100.	**	70.
07D	23.7	1.6	24.3	2.5	1.2	17.3	***	100.	**	70.
08	10.6	10.2	10.7	10.1	7.7	12.9	***	100.	**	70.
09	9.1	9.5	9.9	9.5	16.3	12.6	***	100.	**	70.
10	10.1	10.0	10.0	10.3	0.7	14.3	***	**	**	**
11	10.0	10.0	9.6	10.0	16.8	12.8	***	100.	**	**
12	17.2	17.1	18.0	15.7	18.8	15.3	***	100.	**	70.
13	5.8	5.9	6.1	5.6	9.9	8.2	***	100.	**	70.
14	20.3	6.3	20.2	5.8	19.5	16.2	***	100.	**	70.
15	5.8	15.4	4.9	14.4	17.7	14.9	***	100.	**	70.
16	15.0	15.0	5.0	5.1	17.6	15.0	***	100.	**	70.
17A	18.0	18.0	19.8	16.3	19.3	16.0	***	100.	**	70.
17B	18.0	18.0	19.8	16.3	19.3	16.0	***	100.	**	70.
17C	18.0	18.0	19.8	16.3	19.3	16.0	***	100.	**	70.
18A	6.3	6.3	5.0	5.0	19.5	15.0	***	100.	**	70.
18B	6.3	6.3	5.0	5.0	19.5	15.0	***	100.	**	70.
18C	6.3	6.3	5.0	5.0	19.5	15.0	***	100.	**	70.
19	2.1	2.1	22.2	17.5	16.3	15.6	***	100.	**	70.
20	16.0	16.3	17.5	14.8	17.6	14.3	***	100.	**	70.
21A	16.0	17.0	18.0	13.8	18.3	14.8	***	100.	**	70.
21B	16.0	17.0	18.0	13.8	18.3	14.8	***	100.	**	70.
21C	16.0	17.0	18.0	13.8	18.3	14.8	***	100.	**	70.
22A	5.8	5.0	5.0	5.0	12.8	10.3	***	100.	**	70.
22B	5.8	5.0	5.0	5.0	12.8	10.3	***	100.	**	70.
22C	5.8	5.0	5.0	5.0	12.8	10.3	***	100.	**	70.
23	17.8	18.0	19.6	16.3	18.8	15.8	***	100.	**	70.
24	5.1	4.8	5.1	5.6	20.4	16.9	***	100.	**	70.
25	14.0	14.2	15.8	12.7	16.8	13.7	***	100.	**	70.
26	17.5	5.6	18.0	4.0	17.8	14.5	***	100.	**	70.
27	4.5	16.8	4.5	15.7	18.1	15.1	***	100.	**	70.
28	16.0	16.0	5.3	4.3	18.0	15.0	***	100.	**	70.
29	4.7	4.2	18.3	15.3	17.9	15.0	***	100.	**	70.
30A	16.0	16.3	17.8	14.5	17.3	14.0	***	100.	**	70.
30B	16.0	16.3	17.8	14.5	17.3	14.0	***	100.	**	70.
30C	16.0	16.3	17.8	14.5	17.3	14.0	***	100.	**	70.
31A	5.0	4.5	5.0	4.0	17.0	13.0	***	100.	**	70.
31B	5.0	4.5	5.0	4.0	17.0	13.0	***	100.	**	70.
31C	5.0	4.5	5.0	4.0	17.0	13.0	***	100.	**	70.
32A	16.3	16.3	18.0	15.0	17.8	14.8	***	100.	**	70.
32B	16.3	16.3	18.0	15.0	17.8	14.8	***	100.	**	70.
32C	16.3	16.3	18.0	15.0	17.8	14.8	***	100.	**	70.

KVP4 1-5000 554

ABMA TEST SITE C

TEST NO.	FRONT UPPER "H2O	FRONT LOWER "H2O	REAR UPPER "H2O	REAR LOWER "H2O	BLR HPR REINJ "H2O	DC HPR REINJ "H2O	OTHER REINJ "H2O	BLR HPR REINJ %	ECON HPR REINJ %	DC HPR REINJ %
33A	5.0	3.5	4.5	5.0	16.5	13.8	***	100.	**	70.
33B	5.0	3.5	4.5	5.0	16.5	13.8	***	100.	**	70.
33C	5.0	3.5	4.5	5.0	16.5	13.8	***	100.	**	70.
34A	15.5	15.8	5.0	5.5	15.3	17.8	***	100.	**	70.
34B	5.0	4.5	20.0	16.5	15.3	17.8	***	100.	**	70.
34C	19.0	4.5	20.0	5.0	16.0	15.8	***	100.	**	70.
34D	5.0	14.5	5.3	13.5	16.0	15.8	***	100.	**	70.
35	15.8	15.9	17.9	14.6	17.4	14.3	***	100.	**	70.
36	10.0	10.3	9.9	9.3	0.8	11.8	***	**	**	**
40	10.7	9.8	10.6	12.3	16.4	12.2	***	100.	**	**
41	14.4	14.8	15.9	13.2	16.4	13.9	***	100.	**	70.
42	18.4	18.2	20.0	16.6	18.2	15.9	***	100.	**	70.
43	17.7	17.5	19.0	16.0	18.1	15.0	***	100.	**	70.
44	19.0	19.0	21.0	17.7	18.0	15.6	***	100.	**	70.
45	18.4	18.6	20.8	17.6	17.8	15.0	***	100.	**	70.
46	18.0	18.7	20.5	16.5	18.0	15.0	***	100.	**	70.
48A	17.8	18.3	17.4	16.0	9.5	14.5	***	100.	**	70.
48B	11.0	11.0	10.5	9.8	7.1	11.3	***	100.	**	70.
48C	3.6	4.1	3.1	3.0	3.0	5.0	***	100.	**	70.
49A	18.0	18.0	16.8	14.5	9.0	13.8	***	100.	**	70.
49B	18.0	18.0	16.8	14.5	9.0	13.8	***	100.	**	70.
49C	18.0	18.0	16.8	14.5	9.0	13.8	***	100.	**	70.
50A	3.5	3.8	3.5	3.3	3.3	5.0	***	100.	**	70.
50B	3.5	3.8	3.5	3.3	3.3	5.0	***	100.	**	70.
50C	3.5	3.8	3.5	3.3	3.3	5.0	***	100.	**	70.

FOR THE VARIABLES RBH,ROC AND ROH, THE ASTERISKS REPPESENT TRUE ZERO VALUES

TABLE 8

OVERFIRE AIR AND FLY ASH REINJECTION CONFIGURATIONS

ABMA TEST SITE D

TEST NO.	FRONT UPPER "H2O	FRONT LOWER "H2O	REAR UPPER "H2O	REAR LOWER "H2O	BLR HPR REINJ "H2O	DC HPR REINJ "H2O	OTHER REINJ "H2O	BLR HPR REINJ %	ECON HPR REINJ %	DC HPR REINJ %
02	6.0	6.5	***	***	***	***	***	**	**	**
03	9.5	10.0	***	***	***	***	***	**	**	**
04	10.0	10.5	***	***	***	***	***	**	**	**
05	9.5	10.0	***	***	***	***	***	**	**	**
06	5.0	5.5	***	***	***	***	***	**	**	**
07	15.5	15.5	***	***	***	***	***	**	**	**
08	10.0	9.5	***	***	***	***	***	**	**	**
09	9.5	10.0	***	***	***	***	***	**	**	**
10	9.5	10.0	***	***	***	***	***	**	**	**
11A	5.0	5.0	***	***	***	***	***	**	**	**
11B	10.3	10.0	***	***	***	***	***	**	**	**
11C	15.0	14.0	***	***	***	***	***	**	**	**
12	10.0	10.0	***	***	***	***	***	**	**	**
13	7.0	7.0	***	***	***	***	***	**	**	**
14	7.0	7.0	***	***	***	***	***	**	**	**
15	15.0	16.0	***	***	***	***	***	**	**	**
16	10.0	10.0	***	***	***	***	***	**	**	**
17	10.0	10.0	***	***	***	***	***	**	**	**
18	13.0	13.0	***	***	***	***	***	**	**	**
22	12.0	12.0	***	***	***	***	***	**	**	**
23	12.5	12.5	***	***	***	***	***	**	**	**

FOR THE VARIABLES RBH,RUC AND ROH, THE ASTERISKS REPRESENT TRUE ZERO VALUES

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TABLE 8

OVERFIRE AIR AND FLY ASH REINJECTION CONFIGURATIONS

ABMA TEST SITE E

TEST NO.	FRONT UPPER "H2O	FRONT LOWER "H2O	REAR UPPER "H2O	REAR LOWER "H2O	BLR HPR REINJ "H2O	DC HPR REINJ "H2O	OTHER REINJ "H2O	BLR HPR REINJ %	ECON HPR REINJ %	DC HPR REINJ %
02	31.3	31.3	27.7	27.7	31.3	***	***	**	**	**
03	31.3	31.3	5.2	26.0	32.9	***	***	**	**	**
04	31.3	32.9	3.5	31.3	31.3	***	***	**	**	**
05	31.3	31.3	5.2	31.3	32.9	***	***	**	**	**
06	27.7	31.3	3.5	13.1	31.3	***	***	**	**	**
07	27.7	19.0	27.7	19.0	31.3	***	***	**	**	**
08	27.7	27.7	27.7	26.0	27.7	***	***	**	**	**
09	27.7	27.7	1.7	22.5	31.3	***	***	**	**	**
10A	31.3	31.3	3.5	26.0	31.3	***	***	**	**	**
10B	31.3	31.3	3.5	29.4	31.3	***	***	**	**	**
10C	31.3	31.3	31.3	29.4	31.3	***	***	**	**	**
10D	31.3	31.3	31.3	8.7	31.3	***	***	**	**	**
10E	31.3	31.3	3.5	8.7	31.3	***	***	**	**	**
11	27.7	27.7	3.5	3.5	29.4	***	***	**	**	**
12	27.7	27.7	3.5	22.5	27.7	***	***	**	**	**
13	27.7	27.7	3.5	22.5	27.7	***	***	**	**	**
14	27.7	27.7	3.5	22.5	29.4	***	***	**	**	**
15	27.7	27.7	3.5	22.5	29.4	***	***	**	**	**
16	28.0	28.0	10.0	20.0	30.0	***	***	**	**	**
17	28.0	28.0	9.0	23.0	30.0	***	***	**	**	**
18A	28.0	28.0	10.0	25.0	30.0	***	***	**	**	**
18B	28.0	28.0	10.0	25.0	30.0	***	***	**	**	**
18C	28.0	28.0	10.0	25.0	30.0	***	***	**	**	**
18D	28.0	28.0	10.0	25.0	30.0	***	***	**	**	**
20	30.0	30.0	9.0	23.0	30.0	***	***	**	**	**

FOR THE VARIABLES RBH, ROC AND RUN, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 8 OVERFIRE AIR AND FLY ASH REINJECTION CONFIGURATIONS

ABMA TEST SITE F

TEST NO.	FRONT UPPER "H2O	FRONT LOWER "H2O	REAR UPPER "H2O	REAR LOWER "H2O	BLR HPR REINJ "H2O	DC HPR REINJ "H2O	OTHER REINJ "H2O	BLR HPR REINJ %	ECON HPR REINJ %	DC HPR REINJ %
01	12.7	10.2	1.4	6.9	6.1	***	8.6	**	**	**
02	12.7	8.6	1.7	4.7	6.4	***	8.6	**	**	**
03	13.0	8.6	1.7	6.4	6.4	***	8.6	**	**	**
04	14.3	8.6	1.7	6.4	6.4	***	8.9	**	**	**
05	13.3	10.0	1.7	6.1	6.6	***	8.6	**	**	**
06	13.3	9.7	1.7	6.4	6.6	***	8.9	**	**	**
07	13.3	8.6	1.7	5.5	6.6	***	8.9	**	**	**
08	13.6	8.6	1.7	6.4	6.4	***	8.6	**	**	**
09	13.0	8.6	1.7	5.3	6.6	***	9.7	**	**	**
10	14.1	9.1	1.4	6.4	6.6	***	8.9	**	**	**
11	14.1	10.0	1.9	5.3	6.4	***	8.6	**	**	**
12	14.1	9.4	1.7	6.1	6.1	***	8.6	**	**	**
13	13.6	10.2	1.7	6.1	6.6	***	8.9	**	**	**
14	13.9	10.2	1.4	6.4	6.6	***	8.9	**	**	**
15	13.6	9.6	1.9	5.2	6.1	***	8.6	**	**	**
16A	13.2	9.5	1.3	5.3	5.5	***	8.3	**	**	**
16B	11.1	10.0	4.4	8.3	3.3	***	5.8	**	**	**
16C	5.2	6.6	2.7	2.8	5.2	***	5.3	**	**	**
17	13.7	10.3	1.0	5.3	5.0	***	8.3	**	**	**
18	10.8	10.2	4.8	8.2	5.2	***	5.2	**	**	**
19	4.9	6.9	2.4	2.8	5.0	***	5.9	**	**	**
20	13.6	10.0	1.6	4.9	5.0	***	8.3	**	**	**
21	13.3	9.9	1.7	5.1	4.8	***	8.1	**	**	**
22	10.3	9.6	5.5	8.0	5.1	***	5.2	**	**	**
23A	10.5	9.7	5.0	6.1	5.0	***	0.6	100.	**	**
23B	10.9	10.0	5.1	8.0	5.0	***	***	100.	**	**
24	10.7	9.9	5.7	8.0	4.8	***	4.8	**	**	**
25	13.6	8.9	1.9	5.3	5.3	***	8.3	**	**	**
26	13.6	9.1	1.9	5.0	5.0	***	7.8	**	**	**
27	13.3	9.4	1.7	5.0	5.3	***	8.0	**	**	**
28	13.3	9.4	1.7	5.0	5.3	***	8.0	**	**	**
29	10.4	9.8	5.1	8.0	5.0	***	4.8	**	**	**
30	10.5	9.5	5.4	8.0	5.1	***	5.0	**	**	**
31	13.8	9.7	1.4	6.0	6.1	***	8.6	**	**	**
32	13.8	9.7	1.4	5.3	5.8	***	8.3	**	**	**
33	13.8	9.7	1.4	5.8	6.1	***	8.6	**	**	**
34	13.8	9.7	1.4	5.8	5.8	***	8.6	**	**	**
35	13.6	9.5	1.4	6.0	5.9	***	8.5	**	**	**

FOR THE VARIABLES RUH, RUC AND PUH, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 8 OVERFIRE AIR AND FLY ASH REINJECTION CONFIGURATIONS

ABMA TEST SITE G

TEST NO.	FRONT UPPER "H2O	FRONT LOWER "H2O	REAR UPPER "H2O	REAR LOWER "H2O	BLR HPR REINJ "H2O	DC HPR REINJ "H2O	OTHER REINJ "H2O	BLR HPR REINJ %	ECON HPR REINJ %	DC HPR REINJ %
02	***	23.0	23.0	23.0	***	***	***	**	**	**
03	***	18.0	13.0	12.0	***	***	***	**	**	**
04	***	22.0	22.0	22.0	***	***	***	**	**	**
05	***	25.0	22.0	22.0	***	***	***	**	**	**
06	***	18.0	20.0	18.0	***	***	***	**	**	**
07	***	15.0	15.0	15.0	***	***	***	**	**	**
08	***	21.0	22.0	21.0	***	***	***	**	**	**
09	***	22.0	22.0	22.0	***	***	***	**	**	**
10	***	21.0	21.0	21.0	***	***	***	**	**	**
11A	***	21.0	21.0	21.0	***	***	***	**	**	**
11B	***	21.0	21.0	21.0	***	***	***	**	**	**
11C	***	21.0	21.0	21.0	***	***	***	**	**	**
11D	***	21.0	21.0	21.0	***	***	***	**	**	**
12A	***	22.0	22.0	21.0	***	***	***	**	**	**
12B	***	22.0	22.0	21.0	***	***	***	**	**	**
12C	***	22.0	22.0	21.0	***	***	***	**	**	**
12D	***	22.0	22.0	21.0	***	***	***	**	**	**
12L	***	22.0	22.0	21.0	***	***	***	**	**	**
15	***	21.0	21.0	21.0	***	***	***	**	**	**
16	***	7.0	7.0	7.0	***	***	***	**	**	**
17	***	20.0	21.0	21.0	***	***	***	**	**	**
18	***	21.0	21.0	21.0	***	***	***	**	**	**
19	***	5.0	5.0	5.0	***	***	***	**	**	**
20	***	19.0	19.0	19.0	***	***	***	**	**	**
22	***	21.0	21.0	21.0	***	***	***	**	**	**
23	***	19.0	19.0	19.0	***	***	***	**	**	**
24	***	12.0	12.0	12.0	***	***	***	**	**	**
25A	***	20.0	21.0	21.0	***	***	***	**	**	**
25B	***	20.0	21.0	21.0	***	***	***	**	**	**
25C	***	20.0	20.0	20.0	***	***	***	**	**	**
25D	***	20.0	20.0	20.0	***	***	***	**	**	**
26A	***	20.0	20.0	20.0	***	***	***	**	**	**
26B	***	20.0	20.0	20.0	***	***	***	**	**	**
26C	***	16.0	16.0	16.0	***	***	***	**	**	**
26D	***	16.0	16.0	16.0	***	***	***	**	**	**

FOR THE VARIABLES RBH,RDC AND ROH, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 8 OVERFIRE AIR AND FLY ASH REINJECTION CONFIGURATIONS

ABMA TEST SITE H

TEST NO.	FRONT UPPER "H2O	FRONT LOWER "H2O	REAR UPPER "H2O	REAR LOWER "H2O	BLR HPR REINJ "H2O	DC HPR REINJ "H2O	OTHER REINJ "H2O	BLR HPR REINJ %	ECON HPR REINJ %	DC HPR REINJ %
01A	2.4	***	***	***	***	***	***	**	**	**
01B	2.4	***	***	***	***	***	***	**	**	**
02A	2.8	***	***	***	***	***	***	**	**	**
02B	2.9	***	***	***	***	***	***	**	**	**
02C	2.9	***	***	***	***	***	***	**	**	**
02D	2.8	***	***	***	***	***	***	**	**	**
02E	2.8	***	***	***	***	***	***	**	**	**
02F	2.8	***	***	***	***	***	***	**	**	**
03	2.7	***	***	***	***	***	***	**	**	**
04A	2.8	***	***	***	***	***	***	**	**	**
04C	11.2	***	***	***	***	***	***	**	**	**
05	11.7	***	***	***	***	***	***	**	**	**
06	11.2	***	***	***	***	***	***	**	**	**
07A	3.0	***	***	***	***	***	***	**	**	**
07B	3.0	***	***	***	***	***	***	**	**	**
07C	3.0	***	***	***	***	***	***	**	**	**
07D	3.0	***	***	***	***	***	***	**	**	**
08	2.9	***	***	***	***	***	***	**	**	**
09	3.0	***	***	***	***	***	***	**	**	**
10A	2.9	***	***	***	***	***	***	**	**	**
10B	2.9	***	***	***	***	***	***	**	**	**
10C	2.9	***	***	***	***	***	***	**	**	**
10D	2.9	***	***	***	***	***	***	**	**	**
10E	2.9	***	***	***	***	***	***	**	**	**
11	3.0	***	***	***	***	***	***	**	**	**

FOR THE VARIABLES RBH,ROC AND RUH, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 6 OVERFIRE AIR AND FLY ASH REINJECTION CONFIGURATIONS

ADMA TEST SITE I

TEST NO.	FRONT UPPER "H2O	FRONT LOWER "H2O	REAR UPPER "H2O	REAR LOWER "H2O	BLR HPR REINJ "H2O	DC HPR REINJ "H2O	OTHER REINJ "H2O	BLR HPR REINJ %	ECON HPR REINJ %	DC HPR REINJ %
01	3.0	***	***	***	***	***	***	**	**	**
02	3.2	***	***	***	***	***	***	**	**	**
03	10.5	***	***	***	***	***	***	**	**	**
04	10.8	***	***	***	***	***	***	**	**	**
05	5.6	***	***	***	***	***	***	**	**	**
06	3.0	***	***	***	***	***	***	**	**	**
07A	3.0	***	***	***	***	***	***	**	**	**
07B	3.0	***	***	***	***	***	***	**	**	**
07C	3.0	***	***	***	***	***	***	**	**	**
08A	3.0	***	***	***	***	***	***	**	**	**
08B	3.0	***	***	***	***	***	***	**	**	**
08C	3.0	***	***	***	***	***	***	**	**	**
08D	3.0	***	***	***	***	***	***	**	**	**
09	9.0	***	***	***	***	***	***	**	**	**
10	3.0	***	***	***	***	***	***	**	**	**
14	4.0	***	***	***	***	***	***	**	**	**
15	4.0	***	***	***	***	***	***	**	**	**
16A	4.0	***	***	***	***	***	***	**	**	**
16B	4.0	***	***	***	***	***	***	**	**	**
16C	4.0	***	***	***	***	***	***	**	**	**
16D	4.0	***	***	***	***	***	***	**	**	**
16E	4.0	***	***	***	***	***	***	**	**	**
18	8.0	***	***	***	***	***	***	**	**	**

FOR THE VARIABLES RUH,RUC AND RUH, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 8

OVERFIRE AIR AND FLY ASH REINJECTION CONFIGURATIONS

ABMA TEST SITE J

TEST NO.	FRONT UPPER "H2O	FRONT LOWER "H2O	REAR UPPER "H2O	REAR LOWER "H2O	BLR HPR REINJ "H2O	DC HPR REINJ "H2O	OTHER REINJ "H2O	BLR HPR REINJ %	ECON HPR REINJ %	DC HPR REINJ %
01	0.8	***	***	***	***	***	***	**	**	**
02	3.5	***	***	***	***	***	***	**	**	**
05	7.8	***	***	***	***	***	***	**	**	**
06	4.0	***	***	***	***	***	***	**	**	**
07	4.3	***	***	***	***	***	***	**	**	**
08	2.5	***	***	***	***	***	***	**	**	**
09	2.3	***	***	***	***	***	***	**	**	**
13	1.0	***	***	***	***	***	***	**	**	**
14	7.7	***	***	***	***	***	***	**	**	**
15	5.8	***	***	***	***	***	***	**	**	**
16	6.8	***	***	***	***	***	***	**	**	**

FOR THE VARIABLES RBH,RDC AND RUH, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 8 OVERFIRE AIR AND FLY ASH REINJECTION CONFIGURATIONS

ABMA TEST SITE K

TEST NO.	FRONT UPPER "H2O	FRONT LOWER "H2O	REAR UPPER "H2O	REAR LOWER "H2O	BLR HPR REINJ "H2O	DC HPR REINJ "H2O	OTHER REINJ "H2O	BLR HPR REINJ %	ECON HPR REINJ %	DC HPR REINJ %
01	2.5	***	***	***	***	***	***	**	**	**
02	1.9	***	***	***	***	***	***	**	**	**
03	2.2	***	***	***	***	***	***	**	**	**
04	2.5	***	***	***	***	***	***	**	**	**
05	2.6	***	***	***	***	***	***	**	**	**
06	7.5	***	***	***	***	***	***	**	**	**
07	5.0	***	***	***	***	***	***	**	**	**
08	4.9	***	***	***	***	***	***	**	**	**
09	4.9	***	***	***	***	***	***	**	**	**
10	2.5	***	***	***	***	***	***	**	**	**
11	2.5	***	***	***	***	***	***	**	**	**
12	3.5	***	***	***	***	***	***	**	**	**
13	2.5	***	***	***	***	***	***	**	**	**
14	2.5	***	***	***	***	***	***	**	**	**
15	2.5	***	***	***	***	***	***	**	**	**
16	3.8	***	***	***	***	***	***	**	**	**
17	2.0	***	***	***	***	***	***	**	**	**
18	2.5	***	***	***	***	***	***	**	**	**

FOR THE VARIABLES RGH, RDC AND RUH, THE ASTERISKS REPRESENT TRUE ZERO VALUES

TABLE 9

SULFUR BALANCE DATA

ABMA TEST SITE A

TEST NO.	COAL	FUEL SULFUR		SULFUR EMITTED			RETENTION IN BOTTOM ASH		RETENTION IN FLY ASH		RETENTION IN COLLECTED ASH	
		%	AS SO2 LB/MM BTU	SOX PPM	AS SO2 LB/MM BTU	% EMITTED	%	AS SO2 LB/MM BTU	%	AS SO2 LB/MM BTU	%	AS SO2 LB/MM BTU
01	1	1.05	2.026	770.	1.492	74.	***	***	***	***	***	***
08A	1	0.97	1.790	754.	1.384	77.	0.05	0.005	***	***	***	***
08B	1	***	***	304.	0.574	**	0.05	0.006	***	***	***	***
09	1	0.91	1.711	796.	1.489	87.	0.06	0.007	***	***	***	***
12	1	0.88	1.664	795.	1.500	90.	0.06	0.007	***	***	***	***
18A	1	0.88	1.670	896.	1.692	101.	0.16	0.018	***	***	***	***
18B	1	0.88	1.670	318.	0.600	36.	0.17	0.019	***	***	***	***
34A	3	0.73	1.386	514.	0.995	72.	0.01	0.002	0.37	***	***	***
34B	3	***	***	491.	0.942	**	0.01	0.002	***	***	***	***
35A	3	0.35	0.655	417.	0.796	121.	0.02	0.003	0.32	***	***	***
35B	3	***	***	355.	0.681	**	0.02	0.003	***	***	***	***

TABLE 4

SULFUR BALANCE DATA

ABMA TEST SITE B

TEST NO.	COAL	FUEL SULFUR		SULFUR EMITTED			RETENTION IN BOTTOM ASH		RETENTION IN FLY ASH		RETENTION IN COLLECTED ASH	
		%	AS SO2 LB/MM BTU	SOx PPM	AS SO2 LB/MM BTU	% EMITTED	%	AS SO2 LB/MM BTU	%	AS SO2 LB/MM BTU	%	AS SO2 LB/MM BTU
---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 9 SULFUR BALANCE DATA PAGE 1

ABMA TEST SITE C

TEST NO.	COAL	FUEL SULFUR %	FUEL SULFUR AS SO2 LB/MM BTU	SULFUR EMITTED SOX PPM	SULFUR EMITTED AS SO2 LB/MM BTU	SULFUR EMITTED % EMITTED	RETENTION IN BOTTOM ASH %	RETENTION IN BOTTOM ASH AS SO2 LB/MM BTU	RETENTION IN FLY ASH %	RETENTION IN FLY ASH AS SO2 LB/MM BTU	RETENTION IN COLLECTED ASH %	RETENTION IN COLLECTED ASH AS SO2 LB/MM BTU
44	2	0.56	1.269	976.	1.877	148.	0.35	0.070	***	***	0.19	0.027
45	2	0.54	1.277	810.	1.554	122.	0.45	0.092	***	***	0.28	0.040
46	1	2.57	4.006	1871.	3.555	89.	0.66	0.101	***	***	0.30	0.031

TABLE 4

SULFUR BALANCE DATA

ABMA TEST SITE D

TEST NO.	COAL	FUEL SULFUR %	FUEL SULFUR AS SO2 LB/MM BTU	SULFUR EMITTED SOX PPM	SULFUR EMITTED AS SO2 LB/MM BTU	SULFUR EMITTED % EMITTED	RETENTION IN BOTTOM ASH %	RETENTION IN BOTTOM ASH AS SO2 LB/MM BTU	RETENTION IN FLY ASH %	RETENTION IN FLY ASH AS SO2 LB/MM BTU	RETENTION IN COLLECTED ASH %	RETENTION IN COLLECTED ASH AS SO2 LB/MM BTU
18	2	0.98	1.435	1271.	2.405	168.	0.16	0.018	0.62	0.005	***	***
22	3	1.10	1.635	1293.	2.426	148.	0.16	0.023	0.47	0.006	***	***

TABLE 4

SULFUR BALANCE DATA

AGMA TEST SITE E

TEST NO.	COAL	FUEL SULFUR		SULFUR EMITTED			RETENTION IN BOTTOM ASH		RETENTION IN FLY ASH		RETENTION IN COLLECTED ASH	
		%	AS SO2 LB/MM BTU	SOX PPM	AS SO2 LB/MM BTU	% EMITTED	%	AS SO2 LB/MM BTU	%	AS SO2 LB/MM BTU	%	AS SO2 LB/MM BTU
16	3	0.74	1.185	1273.	2.387	201.	0.08	0.011	0.39	0.014	***	***
17	1	0.82	1.309	746.	1.412	108.	0.11	0.015	0.25	0.004	***	***

TABLE 9 SULFUR BALANCE DATA PAGE 1

ABMA TEST SITE F

TEST NO.	COAL		FUEL SULFUR %	FUEL SULFUR AS SO2 LB/MM BTU	SULFUR EMITTED SOX PPM	SULFUR EMITTED AS SO2 LB/MM BTU	SULFUR EMITTED % EMITTED	RETENTION IN BOTTOM ASH %	RETENTION IN BOTTOM ASH AS SO2 LB/MM BTU	RETENTION IN FLY ASH %	RETENTION IN FLY ASH AS SO2 LB/MM BTU	RETENTION IN COLLECTED ASH %	RETENTION IN COLLECTED ASH AS SO2 LB/MM BTU
05		1	1.34	2.039	908.	1.756	86.	***	***	***	***	***	***
15		1	1.20	1.850	966.	1.893	102.	***	***	***	***	***	***
17		1	1.24	1.876	953.	1.832	98.	***	***	***	***	***	***
18		1	1.43	2.261	1110.	2.231	99.	***	***	***	***	***	***
19		1	1.35	2.160	1186.	2.412	112.	***	***	***	***	***	***
20		1	1.61	2.331	1088.	2.002	86.	***	***	***	***	***	***
21		1	1.85	2.772	1252.	2.385	86.	***	***	***	***	***	***
22		1	1.51	2.216	1126.	2.144	97.	0.09	0.014	0.71	0.016	***	***
23A		1	1.66	2.415	1058.	1.956	81.	***	***	***	***	***	***
23B		1	1.67	2.480	1367.	2.618	106.	***	***	***	***	***	***
24		1	1.52	2.005	1131.	2.138	107.	***	***	***	***	***	***
29		2	1.00	1.468	693.	1.315	90.	***	***	***	***	***	***
30		2	0.99	1.454	695.	1.315	90.	0.09	0.013	0.43	0.010	***	***

TABLE 9

SULFUR BALANCE DATA

ABMA TEST SITE G

TEST NO.	COAL	FUEL SULFUR		SULFUR EMITTED			RETENTION IN BOTTOM ASH		RETENTION IN FLY ASH		RETENTION IN COLLECTED ASH	
		%	AS SO2 LB/MM BTU	SOX PPM	AS SO2 LB/MM BTU	% EMITTED	%	AS SO2 LB/MM BTU	%	AS SO2 LB/MM BTU	%	AS SO2 LB/MM BTU
09	1	0.81	1.235	627.	1.183	96.	0.09	0.011	0.44	0.003	0.44	0.043
15	1	0.68	1.075	547.	1.035	96.	0.09	0.016	0.42	0.003	0.42	0.041
20	3	0.69	1.073	545.	1.028	96.	0.08	0.010	0.34	0.002	***	***

TABLE 9 SULFUR BALANCE DATA PAGE 1

AGMA TEST SITE H

TEST NO.	COAL	FUEL SULFUR %	FUEL SULFUR AS SO2 LB/MM BTU	SULFUR EMITTED SOX PPM	SULFUR EMITTED AS SO2 LB/MM BTU	SULFUR EMITTED % EMITTED	RETENTION IN BOTTOM ASH %	RETENTION IN BOTTOM ASH AS SO2 LB/MM BTU	RETENTION IN FLY ASH %	RETENTION IN FLY ASH AS SO2 LB/MM BTU	RETENTION IN COLLECTED ASH %	RETENTION IN COLLECTED ASH AS SO2 LB/MM BTU
03	1	1.57	2.667	1359.	2.473	93.	0.58	0.087	***	***	***	***
05	1	1.97	3.450	1830.	3.433	100.	0.75	0.145	***	***	***	***
06	1	1.82	3.441	1754.	3.310	96.	0.30	0.062	***	***	***	***
08	1	2.21	3.946	2357.	4.508	114.	0.77	0.162	***	***	***	***
09	1	2.21	3.822	1958.	3.627	95.	0.50	0.088	***	***	***	***
11	1	1.62	2.708	1765.	3.332	123.	0.24	0.024	***	***	***	***

TABLE 9

SULFUR BALANCE DATA

ABMA TEST SITE 1

TEST NO.	COAL	FUEL SULFUR %	FUEL SULFUR AS SO2 LB/MM BTU	SULFUR EMITTED SOX PPM	SULFUR EMITTED AS SO2 LB/MM BTU	SULFUR EMITTED % EMITTED	RETENTION IN BOTTOM ASH %	RETENTION IN BOTTOM ASH AS SO2 LB/MM BTU	RETENTION IN FLY ASH %	RETENTION IN FLY ASH AS SO2 LB/MM BTU	RETENTION IN COLLECTED ASH %	RETENTION IN COLLECTED ASH AS SO2 LB/MM BTU
							***	***	***	***	***	***
09	1	1.88	2.825	1892.	3.502	124.	***	***	***	***	***	***
18	2	1.33	1.901	968.	1.827	96.						

TABLE V

SULFUR BALANCE DATA

ABMA TEST SITE J

TEST NO.	COAL	FUEL SULFUR		SULFUR EMITTED			RETENTION IN BOTTOM ASH		RETENTION IN FLY ASH		RETENTION IN COLLECTED ASH	
		%	AS SO2 LB/MM BTU	SOX PPM	AS SO2 LB/MM BTU	% EMITTED	%	AS SO2 LB/MM BTU	%	AS SO2 LB/MM BTU	%	AS SO2 LB/MM BTU
15	2	1.03	1.476	1013.	1.882	127.	0.51	0.048	***	***	1.20	0.011
16	1	2.02	3.110	1460.	2.902	93.	0.31	0.046	***	***	1.30	0.016

TABLE 9

SULFUR BALANCE DATA

AdMA TEST SITE K

TEST NO.	COAL	FUEL SULFUR		SULFUR EMITTED			RETENTION IN BOTTOM ASH		RETENTION IN FLY ASH		RETENTION IN COLLECTED ASH	
		%	AS SO2 LB/MM BTU	SOX PPM	AS SO2 LB/MM BTU	% EMITTED	%	AS SO2 LB/MM BTU	%	AS SO2 LB/MM BTU	%	AS SO2 LB/MM BTU
18	1	1.39	2.111	599.	1.136	54.	0.27	0.023	***	***	0.36	0.004

TABLE 10

TABULATION OF STEAM FLOWS AND HEAT RELEASE RATES

ABMA TEST SITE A

TEST NO.	STEAM FLOW KLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKB/HR	FRONT FOOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
01	191000.	300.	422.	266.	**	236.	8.72	459.	14.1	64.
02A	177000.	300.	422.	263.	**	219.	8.08	425.	13.1	59.
02B	177000.	300.	422.	263.	**	219.	8.08	425.	13.1	59.
02C	177000.	300.	422.	263.	**	219.	8.08	425.	13.1	59.
02D	177000.	300.	422.	263.	**	219.	8.08	425.	13.1	59.
02E	177000.	300.	422.	263.	**	219.	8.08	425.	13.1	59.
02F	177000.	300.	422.	263.	**	219.	8.08	425.	13.1	59.
02G	177000.	300.	422.	263.	**	219.	8.08	425.	13.1	59.
02H	177000.	300.	422.	263.	**	219.	8.08	425.	13.1	59.
03	182000.	300.	422.	264.	**	225.	8.31	437.	13.5	61.
04	180000.	300.	422.	270.	**	223.	8.22	432.	13.3	60.
05	217000.	300.	422.	269.	**	269.	9.90	521.	16.1	72.
06	210000.	300.	422.	272.	**	260.	9.58	504.	15.6	70.
07A	203000.	300.	422.	268.	**	251.	9.27	488.	15.0	68.
07B	203000.	300.	422.	268.	**	251.	9.27	488.	15.0	68.
07C	203000.	300.	422.	268.	**	251.	9.27	488.	15.0	68.
07D	203000.	300.	422.	267.	**	251.	9.27	488.	15.0	68.
07E	203000.	300.	422.	267.	**	251.	9.27	488.	15.0	68.
08A	196000.	300.	422.	270.	**	243.	8.95	471.	14.5	65.
08B	196000.	300.	422.	270.	**	243.	8.95	471.	14.5	65.
09	182000.	303.	423.	264.	**	225.	8.31	437.	13.5	61.
10	110000.	300.	422.	269.	**	136.	5.02	264.	8.1	37.
11A	124000.	300.	422.	269.	**	154.	5.66	298.	9.2	41.
11B	124000.	300.	422.	269.	**	154.	5.66	298.	9.2	41.
11C	124000.	300.	422.	269.	**	154.	5.66	298.	9.2	41.
11D	124000.	300.	422.	269.	**	154.	5.66	298.	9.2	41.
11E	124000.	300.	422.	269.	**	154.	5.66	298.	9.2	41.
11F	124000.	300.	422.	269.	**	154.	5.66	298.	9.2	41.
12	136000.	300.	422.	266.	**	168.	6.21	327.	10.1	45.
13A	232000.	300.	422.	268.	**	287.	10.59	557.	17.2	77.
13B	232000.	300.	422.	268.	**	287.	10.59	557.	17.2	77.
14A	217000.	300.	422.	267.	**	269.	9.90	521.	16.1	72.
14B	217000.	300.	422.	267.	**	269.	9.90	521.	16.1	72.
15	220000.	300.	422.	267.	**	272.	10.04	528.	16.3	73.
16	178000.	300.	422.	268.	**	220.	8.12	428.	13.2	59.
17A	156296.	300.	422.	267.	**	193.	7.13	375.	11.6	52.
17B	156296.	300.	422.	267.	**	193.	7.13	375.	11.6	52.
18A	139000.	300.	422.	261.	**	172.	6.34	334.	10.3	46.
18B	139000.	300.	422.	261.	**	172.	6.34	334.	10.3	46.
19	132000.	300.	422.	262.	**	163.	6.02	317.	9.8	44.
20	127000.	300.	422.	262.	**	157.	5.80	305.	9.4	42.
21	245455.	300.	422.	275.	**	304.	11.20	590.	18.2	82.
22	249851.	300.	422.	273.	**	309.	11.40	600.	18.5	83.
23	176000.	300.	422.	265.	**	218.	8.03	423.	13.0	59.
24	176000.	300.	422.	265.	**	218.	8.03	423.	13.0	59.
25A	222000.	300.	422.	273.	**	275.	10.13	533.	16.4	74.
25B	222000.	300.	422.	273.	**	275.	10.13	533.	16.4	74.
26A	211000.	300.	422.	271.	**	261.	9.63	507.	15.6	70.

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TABLE 10

TABULATION OF STEAM FLOWS AND HEAT RELEASE RATES

ABMA TEST SITE A

TEST NO.	STEAM FLOW KLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKB/HR	FRONT FUOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
26B	221000.	300.	422.	268.	**	274.	10.09	531.	16.4	74.
27	243000.	300.	422.	266.	**	301.	11.09	584.	18.0	81.
28	251000.	300.	422.	265.	**	311.	11.46	603.	18.6	84.
29	255000.	300.	422.	267.	**	316.	11.64	613.	18.9	85.
30	239000.	300.	422.	264.	**	296.	10.91	574.	17.7	80.
31A	159000.	300.	422.	260.	**	197.	7.26	382.	11.8	53.
31B	159000.	300.	422.	260.	**	197.	7.26	382.	11.8	53.
31C	159000.	300.	422.	259.	**	197.	7.26	382.	11.8	53.
31D	159000.	300.	422.	259.	**	197.	7.26	382.	11.8	53.
31E	159000.	300.	422.	258.	**	197.	7.26	382.	11.8	53.
31F	159000.	300.	422.	258.	**	197.	7.26	382.	11.8	53.
32	248000.	302.	422.	265.	**	307.	11.32	596.	18.4	83.
34A	228000.	303.	423.	262.	**	281.	10.36	545.	16.8	76.
34B	228000.	304.	423.	264.	**	281.	10.36	545.	16.8	76.
35A	227000.	301.	422.	271.	**	281.	10.36	545.	16.8	76.
35B	227000.	301.	422.	270.	**	281.	10.36	545.	16.8	76.
36	240000.	300.	422.	265.	**	297.	10.95	576.	17.8	80.
37	259000.	303.	423.	265.	**	321.	11.82	622.	19.2	86.
38	176000.	301.	422.	263.	**	216.	8.03	423.	13.0	59.
39	180000.	301.	422.	260.	**	223.	8.22	432.	13.3	60.
40	198000.	302.	422.	267.	**	245.	9.04	476.	14.7	66.

TABLE 10 TABULATION OF STEAM FLOWS AND HEAT RELEASE RATES

ABMA TEST SITE B

TEST NO.	STEAM FLOW KLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKB/HR	FRONT FOOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
01	82136.	195.	540.	255.	9204.	124.	6.17	334.	9.6	41.
02	55345.	193.	540.	255.	6517.	87.	4.35	235.	6.7	28.
03	54333.	180.	537.	255.	6800.	88.	4.40	238.	6.8	27.
04	94557.	180.	547.	255.	10557.	142.	7.11	385.	11.0	47.
05	93333.	185.	546.	255.	10303.	139.	6.93	375.	10.8	47.
06	150982.	182.	547.	255.	16233.	211.	10.54	571.	16.4	75.
07	151685.	189.	542.	255.	18337.	256.	12.80	693.	19.9	76.
08	149000.	190.	550.	255.	16100.	211.	10.54	571.	16.4	75.
09	145000.	195.	548.	255.	16300.	219.	10.93	592.	17.0	73.
10A	62535.	190.	540.	255.	7268.	96.	4.79	259.	7.4	31.
10B	62535.	195.	545.	255.	7268.	96.	4.79	259.	7.4	31.
10C	62535.	190.	525.	255.	7268.	96.	4.79	259.	7.4	31.
10D	62535.	192.	537.	255.	7268.	96.	4.79	259.	7.4	31.
11	95226.	188.	536.	255.	9910.	140.	6.96	377.	10.8	48.
12	97476.	188.	532.	255.	11077.	148.	7.39	400.	11.5	49.
13A	143168.	180.	561.	255.	15327.	206.	10.28	556.	15.9	72.
13B	143168.	190.	561.	255.	15327.	206.	10.28	556.	15.9	72.
13C	143168.	190.	561.	255.	15327.	206.	10.28	556.	15.9	72.
14A	184565.	200.	570.	255.	20870.	280.	13.99	758.	21.7	92.
14B	184565.	195.	565.	255.	20870.	280.	13.99	758.	21.7	92.
14C	184565.	195.	580.	255.	20870.	280.	13.99	758.	21.7	92.
14D	184565.	195.	580.	255.	20870.	280.	13.99	758.	21.7	92.
15	174803.	191.	561.	255.	18945.	250.	12.47	675.	19.3	87.
16	177360.	187.	562.	255.	19200.	250.	12.46	675.	19.3	89.
17	176067.	190.	584.	255.	17892.	242.	12.09	655.	18.8	88.
18	147337.	198.	550.	255.	15260.	209.	10.43	565.	16.2	74.
19	150233.	192.	553.	255.	15907.	209.	10.41	564.	16.2	75.
20	145581.	192.	558.	255.	15628.	203.	10.12	548.	15.7	73.
21	145652.	193.	555.	255.	15739.	206.	10.29	557.	16.0	73.
22	143607.	190.	552.	255.	16131.	209.	10.41	564.	16.2	72.
23	197863.	195.	567.	255.	21618.	283.	14.11	764.	21.9	99.
24	197500.	193.	570.	255.	23923.	279.	13.93	754.	21.6	99.
25	200400.	187.	571.	255.	22640.	295.	14.61	791.	22.7	100.
26A	198030.	187.	569.	255.	21563.	285.	14.25	771.	22.1	99.
26C	198030.	187.	569.	255.	21563.	285.	14.14	766.	21.9	99.
27	158769.	188.	555.	255.	16052.	213.	10.63	576.	16.5	79.
28	161739.	191.	553.	255.	16696.	222.	11.10	601.	17.2	81.
29	158537.	188.	552.	255.	18146.	240.	11.98	648.	18.6	79.
30	157429.	192.	556.	255.	16843.	223.	11.12	602.	17.3	79.
31	153947.	188.	555.	255.	16184.	213.	10.62	575.	16.5	77.
32	156000.	187.	559.	255.	16235.	212.	10.58	573.	16.4	78.
33	157550.	189.	558.	255.	16570.	226.	11.29	611.	17.5	79.

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TABLE 10 TABULATION OF STEAM FLOWS AND HEAT RELEASE RATES PAGE 1

ABMA TEST SITE C

TEST NO.	STEAM FLOW KLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKB/HR	FRONT FOOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
01	179870.	866.	840.	370.	20606.	253.	9.32	490.	20.9	99.
05A	173835.	860.	820.	370.	19171.	235.	8.67	456.	19.4	95.
05B	176835.	860.	820.	370.	19171.	235.	8.67	456.	19.4	97.
05C	176835.	860.	820.	370.	19171.	235.	8.67	456.	19.4	97.
06A	167526.	875.	805.	370.	18045.	221.	8.16	429.	18.3	92.
06B	167526.	875.	805.	370.	18045.	221.	8.16	429.	18.3	92.
06C	167526.	875.	805.	370.	18045.	221.	8.16	429.	18.3	92.
07A	168840.	860.	820.	370.	18377.	225.	8.31	437.	18.6	93.
07B	168840.	860.	820.	370.	18377.	225.	8.31	437.	18.6	93.
07C	168840.	860.	820.	370.	18377.	225.	8.31	437.	18.6	93.
07D	168840.	860.	820.	370.	18377.	225.	8.31	437.	18.6	93.
08	125879.	867.	790.	370.	12552.	148.	5.47	288.	12.3	69.
09	163317.	870.	834.	370.	17094.	205.	7.55	397.	16.9	89.
10	169782.	875.	830.	370.	19200.	233.	8.57	451.	19.2	93.
11	169816.	872.	820.	370.	18888.	227.	8.35	439.	18.7	93.
12	169816.	875.	825.	370.	18292.	223.	8.22	432.	18.4	93.
13	165634.	876.	816.	370.	17746.	206.	7.59	400.	17.0	91.
14	169658.	878.	827.	370.	17526.	222.	8.19	431.	18.4	93.
15	166538.	875.	834.	370.	17468.	219.	8.07	425.	18.1	91.
16	169204.	875.	823.	370.	17427.	215.	7.93	417.	17.8	93.
17A	138731.	875.	820.	370.	14400.	177.	6.51	343.	14.6	76.
17B	138731.	875.	820.	370.	14400.	177.	6.51	343.	14.6	76.
17C	138731.	875.	820.	370.	14400.	177.	6.51	343.	14.6	76.
18A	138731.	870.	800.	370.	14400.	177.	6.51	343.	14.6	76.
18B	138731.	870.	800.	370.	14400.	177.	6.51	343.	14.6	76.
18C	138731.	870.	800.	370.	14400.	177.	6.51	343.	14.6	76.
19	168000.	878.	845.	370.	17214.	215.	7.93	417.	17.8	92.
20	100909.	877.	778.	370.	11221.	141.	5.20	274.	11.7	55.
21A	140000.	870.	850.	370.	23390.	199.	7.32	385.	16.4	77.
21B	140000.	870.	850.	370.	23390.	199.	7.32	385.	16.4	77.
21C	140000.	880.	850.	370.	23390.	199.	7.32	385.	16.4	77.
22A	140000.	880.	850.	370.	23390.	199.	7.32	385.	16.4	77.
22B	140000.	880.	850.	370.	23390.	199.	7.32	385.	16.4	77.
22C	140000.	880.	850.	370.	23390.	199.	7.32	385.	16.4	77.
23	181700.	874.	880.	370.	29829.	253.	9.33	491.	20.9	100.
24	179498.	875.	905.	370.	28995.	247.	9.11	480.	20.4	98.
25	142727.	878.	855.	370.	23721.	203.	7.48	394.	16.8	78.
26	180963.	873.	905.	370.	29481.	248.	9.14	481.	20.5	99.
27	182982.	872.	892.	370.	26667.	237.	8.73	459.	19.6	100.
28	180680.	865.	903.	370.	31360.	253.	9.32	490.	20.9	99.
29	182045.	865.	900.	370.	30268.	255.	9.39	494.	21.1	100.
30A	106800.	870.	830.	370.	17600.	149.	5.51	290.	12.4	59.
30B	106800.	870.	830.	370.	17600.	149.	5.51	290.	12.4	59.
30C	106800.	870.	830.	370.	17600.	149.	5.51	290.	12.4	59.
31A	100710.	870.	810.	370.	16774.	142.	5.25	276.	11.8	55.
31B	100710.	870.	810.	370.	16774.	142.	5.25	276.	11.8	55.
31C	100710.	870.	810.	370.	16774.	142.	5.25	276.	11.8	55.
32A	179640.	875.	880.	370.	28861.	245.	9.04	476.	20.3	96.

ABMA TEST SITE C

TEST NO.	STEAM FLOW KLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKB/HR	FRONT FOOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
32B	174646.	875.	880.	370.	28861.	245.	9.04	476.	20.3	96.
32C	174646.	875.	880.	370.	28861.	245.	9.04	476.	20.3	96.
33A	175776.	885.	915.	370.	29037.	247.	9.09	478.	20.4	96.
33B	175776.	885.	915.	370.	29037.	247.	9.09	478.	20.4	96.
33C	175776.	885.	915.	370.	29037.	247.	9.09	478.	20.4	96.
34A	173297.	880.	905.	370.	28324.	241.	8.87	467.	19.9	95.
34B	173297.	880.	905.	370.	28324.	241.	8.87	467.	19.9	95.
34C	173297.	870.	900.	370.	28324.	241.	8.87	467.	19.9	95.
34D	173297.	870.	900.	370.	28324.	241.	8.87	467.	19.9	95.
35	100134.	870.	811.	370.	17707.	151.	5.55	292.	12.4	55.
36	178381.	878.	902.	370.	29591.	248.	9.15	482.	20.5	98.
40	186439.	877.	902.	370.	30585.	257.	9.49	499.	21.3	102.
41	105201.	868.	787.	370.	11548.	138.	5.08	268.	11.4	58.
42	180409.	866.	850.	370.	20000.	230.	8.49	447.	19.0	99.
43	142250.	870.	817.	370.	15000.	182.	6.69	352.	15.0	78.
44	177709.	879.	887.	370.	27700.	244.	9.01	474.	20.2	97.
45	177709.	872.	893.	370.	28521.	241.	8.89	468.	19.9	97.
46	180729.	870.	849.	370.	17945.	230.	8.49	447.	19.0	99.
47	169725.	875.	900.	320.	**	**	***	**	***	93.
48A	169725.	875.	867.	370.	17143.	210.	7.75	408.	17.4	93.
48B	169725.	875.	867.	370.	17143.	210.	7.75	408.	17.4	93.
48C	169725.	875.	867.	370.	17143.	210.	7.75	408.	17.4	93.
49A	105850.	865.	790.	370.	11022.	135.	4.98	262.	11.2	58.
49B	105850.	870.	790.	370.	11022.	135.	4.98	262.	11.2	58.
49C	105850.	870.	785.	370.	11022.	135.	4.98	262.	11.2	58.
50A	105850.	865.	790.	370.	11022.	135.	4.98	262.	11.2	58.
50B	105850.	865.	770.	370.	11022.	135.	4.98	262.	11.2	58.
50C	105850.	870.	750.	370.	11022.	135.	4.98	262.	11.2	58.

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TABLE 10

TABULATION OF STEAM FLOWS AND HEAT RELEASE RATES

ABMA TEST SITE D

TEST NO.	STEAM FLOW KLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKB/HR	FRONT FOOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
01	65000.	207.	391.	250.	5400.	70.	4.51	273.	19.9	72.
02	65567.	207.	391.	250.	5407.	71.	4.58	277.	20.2	73.
03	62579.	207.	391.	250.	5257.	67.	4.35	263.	19.2	69.
04	57400.	207.	391.	250.	4022.	53.	3.40	205.	14.9	64.
05	76980.	200.	388.	250.	6629.	86.	5.58	337.	24.5	86.
06	58644.	204.	389.	250.	4850.	63.	4.08	247.	18.0	65.
07	57000.	205.	390.	250.	4863.	63.	4.07	246.	17.9	63.
08	59016.	217.	394.	250.	4282.	56.	3.62	219.	15.9	66.
09	40071.	201.	388.	250.	2725.	36.	2.30	139.	10.1	45.
10	56897.	210.	392.	250.	4800.	62.	4.03	244.	17.8	63.
11A	46857.	203.	389.	250.	3892.	50.	3.25	197.	14.3	52.
11B	46857.	203.	389.	250.	3892.	50.	3.25	197	14.3	52.
11C	46857.	198.	387.	250.	3892.	50.	3.25	197.	14.3	52.
12	78634.	205.	390.	250.	6375.	82.	5.32	322.	23.4	87.
13	80331.	205.	390.	250.	6788.	87.	5.62	340.	24.8	89.
14	78082.	206.	390.	250.	6278.	84.	5.41	327.	23.8	87.
15	79263.	205.	390.	250.	6567.	91.	5.86	354.	25.8	88.
16	57710.	212.	393.	250.	4900.	67.	4.31	260.	19.0	64.
17	78720.	205.	390.	250.	6560.	90.	5.80	350.	25.5	87.
18	71124.	212.	393.	250.	5897.	81.	5.20	314.	22.9	79.
22	53217.	202.	389.	250.	4516.	61.	3.92	237.	17.3	59.
23	54694.	202.	389.	250.	4441.	59.	3.83	231.	16.9	61.

TABLE 10

TABULATION OF STEAM FLOWS AND HEAT RELEASE RATES

ABMA TEST SITE E

TEST NO.	STEAM FLOW MLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKB/HR	FRONT FOOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
02	109500.	190.	431.	220.	9886.	135.	8.43	392.	13.2	61.
03	02400.	167.	430.	220.	7520.	94.	5.90	274.	9.2	46.
04	131200.	191.	430.	220.	13803.	179.	11.16	519.	17.4	73.
05	110600.	189.	430.	220.	11617.	140.	8.73	406.	13.6	62.
06	116900.	191.	431.	220.	12584.	156.	9.77	454.	15.2	65.
07	121400.	190.	430.	220.	13385.	173.	10.84	504.	16.9	67.
08	109500.	190.	432.	220.	11663.	158.	9.85	458.	15.4	61.
09	10200u.	189.	430.	220.	10875.	138.	8.61	400.	13.4	57.
10A	109u0u.	190.	430.	220.	11680.	154.	9.63	448.	15.0	61.
10B	109u0u.	190.	430.	220.	11680.	154.	9.63	448.	15.0	61.
10C	109u0u.	190.	430.	220.	11680.	154.	9.63	448.	15.0	61.
10D	109u0u.	190.	430.	220.	11680.	154.	9.63	448.	15.0	61.
10E	109u0u.	190.	430.	220.	11680.	154.	9.63	448.	15.0	61.
11	112100.	190.	430.	220.	12211.	156.	9.76	454.	15.2	62.
12	117u0u.	190.	430.	220.	12963.	166.	10.36	482.	16.2	65.
13	86400.	189.	430.	220.	9413.	118.	7.39	344.	11.5	46.
14	124600.	190.	430.	220.	14165.	186.	11.63	541.	18.1	69.
15	125600.	191.	430.	220.	16043.	208.	12.99	604.	20.3	70.
16	112200.	190.	430.	220.	14054.	175.	10.97	510.	17.1	62.
17	111200.	192.	430.	220.	16207.	203.	12.69	590.	19.8	62.
18A	117900.	192.	430.	220.	12203.	161.	10.06	468.	15.7	66.
18B	117900.	192.	430.	220.	12203.	161.	10.06	468.	15.7	66.
18C	117900.	192.	430.	220.	12203.	161.	10.06	468.	15.7	66.
18D	117900.	192.	430.	220.	12203.	161.	10.06	468.	15.7	66.
20	114100.	190.	430.	220.	**	**	***	**	***	63.

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TABLE 10

TABULATION OF STEAM FLOWS AND HEAT RELEASE RATES

ABMA TEST SITE F

TEST NO.	STEAM FLOW MLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKB/HR	FRONT FOOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
01	60029.	145.	364.	222.	5340.	72.	6.58	506.	17.2	75.
02	60029.	145.	364.	222.	5340.	72.	6.58	506.	17.2	75.
03	60029.	142.	362.	219.	5340.	72.	6.58	506.	17.2	75.
04	60029.	139.	360.	218.	5340.	72.	6.58	506.	17.2	75.
05	43000.	136.	359.	222.	3672.	48.	4.44	341.	11.6	54.
06	42300.	140.	361.	220.	3611.	48.	4.45	342.	11.7	53.
07	42300.	135.	358.	219.	3611.	48.	4.45	342.	11.7	53.
08	42300.	140.	361.	225.	3611.	48.	4.45	342.	11.7	53.
09	42300.	140.	361.	225.	3611.	48.	4.45	342.	11.7	53.
10	78134.	143.	363.	222.	7299.	98.	8.99	691.	23.6	98.
11	79290.	139.	360.	220.	7403.	99.	9.12	701.	23.9	99.
12	79290.	135.	358.	220.	7403.	99.	9.12	701.	23.9	99.
13	79290.	145.	364.	220.	7403.	99.	9.12	701.	23.9	99.
14	79290.	134.	358.	220.	7403.	99.	9.12	701.	23.9	99.
15	78973.	131.	356.	220.	7263.	94.	8.67	666.	22.7	99.
16A	79073.	136.	359.	224.	7200.	96.	8.87	682.	23.2	100.
16B	79073.	136.	359.	224.	7200.	96.	8.87	682.	23.2	100.
16C	79073.	136.	359.	224.	7200.	96.	8.87	682.	23.2	100.
17	79333.	136.	359.	220.	7045.	93.	8.57	659.	22.4	99.
18	79323.	143.	363.	219.	7239.	92.	8.42	648.	22.1	99.
19	79282.	136.	359.	220.	7525.	94.	8.65	665.	22.7	99.
20	59754.	137.	359.	220.	5256.	73.	6.68	513.	17.5	75.
21	61116.	144.	363.	219.	5625.	75.	6.90	531.	18.1	76.
22	79473.	135.	358.	220.	6927.	94.	8.68	668.	22.7	99.
23A	79984.	133.	357.	220.	7041.	97.	8.90	685.	23.3	100.
23B	79472.	136.	359.	210.	7238.	97.	8.96	689.	23.5	99.
24	81957.	139.	360.	220.	7495.	99.	9.07	698.	23.8	102.
25	79488.	137.	359.	220.	6976.	95.	8.72	671.	22.9	99.
26	79488.	139.	360.	220.	6976.	95.	8.72	671.	22.9	99.
27	79488.	134.	358.	220.	6976.	95.	8.72	671.	22.9	99.
28	79488.	140.	361.	220.	6976.	95.	8.72	671.	22.9	99.
29	80400.	135.	358.	220.	6552.	89.	8.21	631.	21.5	101.
30	81499.	135.	358.	221.	7054.	96.	8.60	677.	23.1	102.
31	59970.	139.	360.	220.	5333.	73.	6.67	513.	17.5	75.
32	59970.	140.	361.	220.	5333.	73.	6.67	513.	17.5	75.
33	59970.	143.	363.	220.	5333.	73.	6.67	513.	17.5	75.
34	59970.	145.	364.	220.	5333.	73.	6.67	513.	17.5	75.
35	60616.	138.	360.	220.	5343.	71.	6.54	503.	17.1	76.

TABLE 10

TABULATION OF STEAM FLOWS AND HEAT RELEASE RATES

ABMA TEST SITE G

TEST NO.	STEAM FLOW KLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKB/HR	FRONT FOOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
02	63750.	138.	360.	212.	**	85.	8.75	614.	20.7	85.
03	59701.	139.	360.	212.	**	80.	8.20	575.	19.4	80.
04	57557.	140.	361.	212.	**	77.	7.90	554.	18.7	77.
05	76278.	138.	360.	212.	**	102.	10.48	735.	24.8	102.
06	43060.	141.	362.	212.	**	58.	5.91	415.	14.0	57.
07	13005.	141.	362.	212.	**	17.	1.79	125.	4.2	17.
08	74690.	141.	362.	212.	**	100.	10.26	719.	24.3	100.
09	54217.	137.	359.	212.	**	73.	7.45	522.	17.6	72.
10	64508.	135.	358.	212.	**	86.	8.86	621.	21.0	86.
11A	58418.	136.	359.	212.	**	78.	8.02	563.	19.0	78.
11B	58418.	137.	359.	212.	**	78.	8.02	563.	19.0	78.
11C	58418.	137.	359.	212.	**	78.	8.02	563.	19.0	78.
11D	58418.	138.	360.	212.	**	78.	8.02	563.	19.0	78.
12A	73703.	138.	360.	212.	**	99.	10.12	710.	24.0	98.
12B	73703.	137.	359.	212.	**	99.	10.12	710.	24.0	98.
12C	73703.	137.	359.	212.	**	99.	10.12	710.	24.0	98.
12D	73703.	137.	359.	212.	**	99.	10.12	710.	24.0	98.
12E	73703.	137.	359.	212.	**	88.	9.01	632.	21.3	87.
15	65571.	137.	360.	212.	**	16.	1.63	114.	3.9	16.
16	11854.	138.	359.	212.	**	98.	10.06	706.	23.8	98.
17	73268.	136.	360.	212.	**	98.	10.01	702.	23.7	98.
18	72057.	134.	360.	212.	**	17.	1.71	120.	4.0	17.
19	12449.	138.	360.	212.	**	78.	8.00	561.	18.9	78.
20	58286.	136.	360.	212.	**	83.	8.48	595.	20.1	82.
22	61780.	139.	360.	212.	**	76.	7.78	546.	18.4	76.
23	56667.	134.	360.	212.	**	79.	8.06	565.	19.1	78.
24	58090.	138.	360.	212.	**	100.	10.25	719.	24.3	100.
25A	74645.	139.	360.	212.	**	100.	10.25	719.	24.3	100.
25B	74645.	139.	360.	212.	**	100.	10.25	719.	24.3	100.
25C	74645.	139.	360.	212.	**	100.	10.25	719.	24.3	100.
25D	74645.	139.	360.	212.	**	78.	8.01	562.	19.0	78.
26A	58361.	139.	360.	212.	**	78.	8.01	562.	19.0	78.
26B	58361.	140.	361.	212.	**	78.	8.01	562.	19.0	78.
26C	58361.	140.	361.	212.	**	78.	8.01	562.	19.0	78.
26D	58361.	140.	361.	212.	**	78.	8.01	562.	19.0	78.

TABLE 10

TABULATION OF STEAM FLOWS AND HEAT RELEASE RATES

ABMA TEST SITE H

TEST NO.	STEAM FLOW KLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKb/HR	FRONT FOOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
01A	39500.	136.	359.	220.	**	54.	4.16	386.	29.2	88.
01B	39500.	136.	359.	220.	**	54.	4.16	386.	29.2	88.
02A	43200.	140.	361.	220.	4674.	59.	4.55	422.	32.0	96.
02B	43200.	140.	361.	220.	4674.	59.	4.55	422.	32.0	96.
02C	43200.	140.	361.	220.	4674.	59.	4.55	422.	32.0	96.
02D	43200.	140.	361.	220.	4674.	59.	4.55	422.	32.0	96.
02E	43200.	140.	361.	220.	4674.	59.	4.55	422.	32.0	96.
02F	43200.	140.	361.	220.	4674.	59.	4.55	422.	32.0	96.
03	45700.	146.	364.	220.	5279.	63.	4.81	446.	33.8	102.
04A	22433.	136.	359.	220.	**	31.	2.36	219.	16.6	50.
04C	22433.	136.	359.	220.	**	31.	2.36	219.	16.6	50.
05	44533.	139.	360.	220.	7460.	61.	4.69	435.	33.0	99.
06	43800.	132.	357.	220.	4897.	60.	4.61	428.	32.4	97.
07A	33975.	136.	359.	220.	3687.	47.	3.58	332.	25.1	76.
07B	33975.	115.	347.	220.	3687.	47.	3.58	332.	25.1	76.
07C	33975.	140.	361.	220.	3687.	47.	3.58	332.	25.1	76.
07D	33975.	140.	361.	220.	3687.	47.	3.58	332.	25.1	76.
08	33666.	136.	359.	220.	2420.	46.	3.55	329.	24.9	75.
09	23333.	125.	353.	220.	2704.	32.	2.46	228.	17.3	52.
10A	22875.	131.	356.	220.	2381.	31.	2.41	223.	16.9	51.
10B	22875.	131.	356.	220.	2381.	31.	2.41	223.	16.9	51.
10C	22875.	138.	360.	220.	2381.	31.	2.41	223.	16.9	51.
10D	22875.	139.	360.	220.	2381.	31.	2.41	223.	16.9	51.
10E	22875.	135.	358.	220.	2381.	31.	2.41	223.	16.9	51.
11	45000.	133.	357.	220.	5299.	62.	4.74	439.	33.3	100.

TABLE 10

TABULATION OF STEAM FLOWS AND HEAT RELEASE RATES

ABMA TEST SITE I

TEST NO.	STEAM FLOW KLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKB/HR	FRONT FOOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
01	35207.	155.	353.	216.	4570.	48.	3.44	191.	12.4	50.
02	68462.	147.	348.	216.	8000.	94.	6.69	371.	24.0	98.
03	72188.	142.	345.	216.	8250.	99.	7.06	391.	25.3	103.
04	70000.	138.	343.	217.	7385.	96.	6.84	379.	24.6	100.
05	57143.	143.	346.	217.	5455.	78.	5.59	310.	20.1	82.
06	68936.	133.	339.	214.	6545.	94.	6.74	374.	24.2	98.
07A	72727.	146.	348.	213.	8571.	100.	7.11	394.	25.5	104.
07B	72727.	146.	348.	213.	8571.	100.	7.11	394.	25.5	104.
07C	72727.	146.	348.	213.	8571.	100.	7.11	394.	25.5	104.
08A	50294.	145.	347.	214.	6545.	69.	4.92	273.	17.7	72.
08B	50294.	145.	347.	214.	6545.	69.	4.92	273.	17.7	72.
08C	50294.	145.	347.	214.	6545.	69.	4.92	273.	17.7	72.
08D	50294.	145.	347.	214.	6545.	69.	4.92	273.	17.7	72.
09	71345.	145.	347.	216.	7149.	98.	6.98	387.	25.0	102.
10	33488.	142.	346.	217.	3000.	46.	3.27	181.	11.8	48.
14	50000.	149.	350.	218.	4364.	68.	4.89	271.	17.6	71.
15	70612.	120.	331.	218.	6643.	97.	6.90	383.	24.8	101.
16A	71087.	132.	339.	217.	6900.	97.	6.95	385.	25.0	102.
16B	71087.	132.	339.	217.	6900.	97.	6.95	385.	25.0	102.
16C	71087.	132.	339.	217.	6900.	97.	6.95	385.	25.0	102.
16D	71087.	132.	339.	217.	6900.	97.	6.95	385.	25.0	102.
16E	71087.	132.	339.	217.	6900.	97.	6.95	385.	25.0	102.
18	71000.	148.	349.	217.	6200.	97.	6.94	385.	24.9	101.

TABLE 10

TABULATION OF STEAM FLOWS AND HEAT RELEASE RATES

ABMA TEST SITE J

TEST NO.	STEAM FLOW KLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKB/HR	FRONT FOOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
01	33766.	136.	343.	221.	3000.	41.	2.96	195.	10.3	48.
02	51652.	134.	341.	221.	4216.	63.	4.53	298.	15.8	74.
03	70000.	130.	**	220.	**	86.	6.13	403.	21.4	100.
04	70000.	130.	**	220.	**	86.	6.13	403.	21.4	100.
05	71622.	129.	337.	215.	6000.	88.	6.29	414.	22.0	103.
06	69016.	141.	344.	219.	4941.	85.	6.05	398.	21.1	99.
07	59463.	144.	347.	224.	4800.	73.	5.21	343.	18.2	85.
08	51200.	137.	343.	224.	4138.	63.	4.49	295.	15.7	73.
09	34699.	141.	344.	224.	2850.	43.	3.04	200.	10.6	50.
13	71719.	138.	345.	224.	5419.	88.	6.29	413.	22.0	102.
14	68000.	141.	344.	226.	5876.	83.	5.96	392.	20.8	97.
15	65760.	140.	344.	216.	5143.	81.	5.76	379.	20.1	94.
16	64808.	129.	337.	216.	5200.	80.	5.68	373.	19.9	93.

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TABLE 10 TABULATION OF STEAM FLOWS AND HEAT RELEASE RATES

ABMA TEST SITE K

TEST NO.	STEAM FLOW KLB/HR	STEAM PRESSURE PSIG	STEAM TEMP F	FEEDWATER TEMP F	COAL FLOW LB/HR	HEAT INPUT MKB/HR	FRONT FOOT HEAT RELEASE MKB/HR-FT	GRATE HEAT RELEASE MKB/HR-FT2	FURNACE HEAT RELEASE KBTU/HR-FT3	LOAD %CAPACITY
01	48708.	132.	340.	255.	4869.	64.	6.42	401.	24.6	97.
02	24960.	124.	334.	277.	2490.	32.	3.21	201.	12.3	50.
03	35593.	128.	337.	261.	3630.	48.	4.81	301.	18.4	71.
04	49750.	133.	340.	257.	4900.	65.	6.47	405.	24.8	100.
05	47750.	131.	339.	260.	4600.	62.	6.18	386.	23.6	96.
06	47454.	132.	340.	262.	4700.	60.	6.05	378.	23.1	95.
07	50250.	134.	341.	267.	4900.	64.	6.38	399.	24.4	101.
08	50000.	135.	340.	262.	5200.	68.	6.85	428.	26.2	100.
09	20250.	125.	333.	270.	2250.	30.	2.96	185.	11.3	41.
10	36782.	128.	337.	261.	3717.	50.	4.98	311.	19.0	74.
11	51102.	138.	342.	260.	5213.	70.	6.96	435.	26.6	102.
12	29357.	124.	334.	269.	3077.	39.	3.88	242.	14.8	59.
13	38250.	127.	336.	260.	4165.	52.	5.19	325.	19.9	77.
14	50602.	130.	338.	260.	5552.	65.	6.53	408.	25.0	101.
15	36316.	128.	337.	260.	4688.	61.	6.06	379.	23.2	73.
16	50800.	135.	340.	260.	4800.	63.	6.31	394.	24.1	102.
17	27750.	126.	335.	273.	2191.	26.	2.83	177.	10.8	56.
18	39000.	130.	338.	261.	4040.	53.	5.32	332.	20.4	78.

TABLE 11 SUMMARY OF BOILER HEAT LOSSES PAGE 1

ABMA TEST SITE A

TEST NO.	DRY GAS %	MOISTURE IN FUEL %	H2O FROM H2 IN FUEL %	COMBUST. EMITTED FLY ASH %	COMBUST. COLLECTED FLY ASH %	COMBUST. BOTTOM ASH %	RADIATION %	UNMEASURED %	TOTAL LOSSES %	BOILER EFFICIENCY %
01	7.16	1.61	4.33	***	***	.07	0.51	1.50		
02A	6.49	1.59	4.16	***	***	.06	0.55	1.50		
02B	6.25	1.59	4.16	***	***	.06	0.55	1.50		
02C	5.97	1.59	4.16	***	***	.06	0.55	1.50		
02D	5.67	1.59	4.16	***	***	.06	0.55	1.50		
02E	6.29	1.59	4.16	***	***	.06	0.55	1.50		
02F	6.52	1.59	4.16	***	***	.06	0.55	1.50		
02G	6.79	1.59	4.16	***	***	.06	0.55	1.50		
02H	7.11	1.59	4.16	***	***	.06	0.55	1.50		
03	6.49	1.59	4.16	***	***	.06	0.54	1.50		
04	7.73	1.60	4.18	***	***	.06	0.55	1.50		
05	7.02	1.71	4.18	***	***	.05	0.45	1.50		
06	8.11	1.61	4.22	***	***	.06	0.47	1.50		
07A	7.24	1.60	4.18	***	***	.06	0.48	1.50		
07B	6.76	1.60	4.18	***	***	.06	0.48	1.50		
07C	6.54	1.60	4.18	***	***	.06	0.48	1.50		
07D	6.40	1.60	4.18	***	***	.06	0.48	1.50		
07E	7.16	1.60	4.18	***	***	.06	0.48	1.50		
08A	6.87	1.42	4.07	***	***	.06	0.50	1.50		
08B	7.95	1.60	4.18	***	***	.06	0.50	1.50		
09	6.86	1.61	4.14	***	***	.06	0.54	1.50		
10	9.08	1.52	4.08	***	***	.07	0.88	1.50		
11A	7.85	1.59	4.15	***	***	.06	0.78	1.50		
11B	7.96	1.59	4.15	***	***	.06	0.78	1.50		
11C	8.25	1.59	4.15	***	***	.06	0.78	1.50		
11D	8.62	1.59	4.15	***	***	.06	0.78	1.50		
11E	8.89	1.59	4.15	***	***	.06	0.78	1.50		
11F	7.69	1.59	4.15	***	***	.06	0.78	1.50		
12	7.01	1.48	4.15	***	***	.06	0.72	1.50		
13A	7.72	1.61	4.22	***	***	.06	0.43	1.50		
13B	7.07	1.61	4.22	***	***	.06	0.43	1.50		
14A	7.40	1.60	4.11	***	***	.05	0.45	1.50		
14B	7.65	1.60	4.20	***	***	.06	0.45	1.50		
15	7.22	1.52	4.19	***	***	.06	0.45	1.50		
16	7.87	2.11	4.33	***	11.40	****	0.55	1.50		
17A	7.71	2.01	4.15	***	11.40	-0.01	0.63	1.50		
17B	8.00	2.12	4.17	***	11.40	-0.01	0.63	1.50		
18A	7.80	1.67	4.16	***	***	.06	0.70	1.50		
18B	7.82	1.68	4.18	***	***	.06	0.70	1.50		
19	7.86	1.82	4.36	***	***	.09	0.74	1.50		
20	6.63	2.12	4.17	***	11.40	***	0.77	1.50		
21	7.87	2.04	4.20	12.67	12.67	***	0.40	1.50		
22	7.96	2.21	4.26	***	.21	.02	0.40	1.50		83.42
23	7.07	2.36	4.18	***	.21	.01	0.56	1.50		84.11
24	7.05	2.23	4.16	7.43	7.43	*****	0.56	1.50		
25A	7.28	2.13	4.20	***	11.40	***	0.44	1.50		
25B	7.05	2.13	4.20	***	11.40	***	0.44	1.50		
26A	7.84	2.06	4.17	7.41	7.41	-0.04	0.47	1.50		
26B	7.93	2.40	4.31	***	11.40	-0.01	0.45	1.50		
27	8.13	1.99	4.29	***	11.40	***	0.41	1.50		

ABMA TEST SITE A

28	8.11	2.11	4.24	19.54	***	***	0.39	1.50	
29	8.33	2.31	4.30	12.20	***	***	0.39	1.50	
30	8.05	2.39	4.31	11.40	***	***	0.41	1.50	
31A	5.94	2.11	4.16	11.40	***	***	0.62	1.50	
31B	5.94	2.11	4.16	11.40	***	***	0.62	1.50	
31C	5.90	2.11	4.16	11.40	***	***	0.62	1.50	
31D	6.23	2.11	4.16	11.40	***	***	0.62	1.50	
31E	6.31	2.12	4.17	11.40	***	***	0.62	1.50	
31F	6.31	2.12	4.17	11.40	***	***	0.62	1.50	
32	8.76	2.17	4.28	11.40	***	***	0.40	1.50	
34A	8.53	1.44	4.19	10.09	***	0.04	0.34	1.50	73.89
34B	8.74	1.44	4.15	13.15	***	.02	0.34	1.50	70.66
35A	8.80	1.47	4.15	17.39	***	-0.03	0.43	1.50	
35B	9.02	1.44	4.17	13.15	***	.02	0.43	1.50	70.27
36	7.50	1.39	4.04	16.13	***	***	0.41	1.50	
37	8.15	1.25	4.11	***	***	.15	0.36	1.50	
38	7.16	1.45	4.16	5.59	***	0.02	0.56	1.50	79.56
39	7.20	1.62	4.19	9.08	***	0.02	0.55	1.50	75.84
40	8.98	2.09	4.31	11.40	***	***	0.50	1.50	

TABLE 11

SUMMARY OF BOILER HEAT LOSSES

ABMA TEST SITE B

TEST NO.	DRY GAS %	MOISTURE IN FUEL %	H2O FROM H2 IN FUEL %	COMBUST. EMITTED FLY ASH %	COMBUST. COLLECTED FLY ASH %	COMBUST. BOTTOM ASH %	RADIATION %	UNMEASURED %	TOTAL LOSSES %	BOILER EFFICIENCY %
01	10.04	0.26	3.91	.20	2.68	.99	0.89	1.50		79.53
02	11.79	0.31	3.93	.20	1.65	.55	1.31	1.50		78.77
03	11.34	0.17	4.08	.21	1.76	.59	1.34	1.50		79.01
04	8.91	0.14	3.92	.17	2.04	1.67	0.78	1.50		80.87
05	7.86	0.15	3.86	.26	2.44	1.14	0.79	1.50		81.99
06	8.19	0.18	4.09	.35	3.31	.92	0.49	1.50	19.04	80.97
07	7.71	0.09	4.06	.25	2.73	.51	0.49	1.50		82.66
08	12.62	0.40	4.11	.19	2.02	1.40	0.50	1.50	22.74	77.26
09	8.74	0.45	3.95	.17	1.84	1.38	0.51	1.50	18.54	81.46
10A	12.23	0.26	4.04	.76	3.14	.81	1.17	1.50		76.09
10B	11.26	0.26	4.04	.76	3.14	.81	1.17	1.50		77.06
10C	10.25	0.26	4.04	.76	3.14	.81	1.17	1.50		78.07
10D	17.31	0.26	4.04	.76	3.14	.81	1.17	1.50		71.01
11	9.65	0.17	3.83	.23	1.58	.14	0.77	1.50	17.88	82.13
12	9.38	0.43	4.04	.17	2.13	.19	0.76	1.50	18.60	81.41
13A	8.42	0.39	3.97	.19	2.63	.21	0.52	1.50		82.17
13B	8.19	0.39	4.00	.19	2.63	.21	0.52	1.50		82.37
13C	8.17	0.40	4.04	.19	2.63	.21	0.52	1.50		82.34
14A	9.02	0.40	4.07	.19	2.63	.21	0.41	1.50		81.57
14B	8.24	0.40	4.06	.19	2.63	.21	0.41	1.50		82.36
14C	7.74	0.40	4.06	.19	2.63	.21	0.41	1.50		82.86
14D	9.36	0.40	4.07	.19	2.63	.21	0.41	1.50		81.23
15	8.15	0.51	4.17	.19	3.04	.21	0.43	1.50		81.80
16	10.15	0.61	4.16	.19	3.57	.22	0.42	1.50		79.20
17	9.35	0.29	4.02	.16	2.93	.33	0.42	1.50	19.00	81.00
18	8.56	0.32	3.93	.26	3.39	.32	0.51	1.50	18.79	81.21
19	8.07	0.44	4.12	.23	2.73	.74	0.50	1.50	18.33	81.67
20	9.35	0.46	4.15	.23	3.42	.53	0.51	1.50	20.15	79.86
21	9.63	0.45	4.11	.23	1.99	.49	0.51	1.50	18.91	81.09
22	8.99	0.55	4.13	.34	3.68	2.48	0.52	1.50	22.19	77.81
23	9.04	0.52	4.16	.19	5.35	1.08	0.38	1.50	22.22	77.78
24	8.42	0.52	4.16	2.72	2.79	2.64	0.38	1.50	23.13	76.87
25	8.48	0.27	4.21	.22	3.74	.93	0.37	1.50	19.71	80.28
26A	8.44	0.30	4.03	.25	2.50	1.27	0.38	1.50	18.66	81.33
26C	7.96	0.36	4.06	.26	2.44	1.19	0.38	1.50		81.85
27	8.59	0.48	4.02	.24	2.29	.22	0.47	1.50	17.81	82.18
28	8.37	0.54	3.99	.14	2.52	1.32	0.46	1.50	18.84	81.16
29	8.96	0.39	4.04	.20	2.68	1.03	0.47	1.50		80.73
30	8.89	0.43	3.95	.26	2.38	1.27	0.47	1.50		80.85
31	8.64	0.40	3.97	.20	3.40	1.16	0.46	1.50		80.25
32	8.34	0.49	4.02	.26	2.44	1.01	0.46	1.50		81.46
33	9.13	0.24	4.04	.76	3.50	.45	0.47	1.50		79.91

TABLE 11

SUMMARY OF BOILER HEAT LOSSES

ABMA TEST SITE C

TEST NO.	DRY GAS %	MOISTURE IN FUEL %	H2O FROM H2 IN FUEL %	COMBUST. EMITTED FLY ASH %	COMBUST. COLLECTED FLY ASH %	COMBUST. BOTTOM ASH %	RADIATION %	UNMEASURED %	TOTAL LOSSES %	BOILER EFFICIENCY %
01	6.83	0.50	4.07	.22	2.03	.57	0.39	1.50		83.89
05A	8.76	0.50	4.07	.22	2.03	.57	0.40	1.50		81.95
05B	7.63	0.50	4.07	.22	2.03	.57	0.40	1.50		83.08
05C	7.26	0.50	4.07	.22	2.03	.57	0.40	1.50		83.45
06A	8.34	0.50	4.07	.22	2.03	.57	0.42	1.50		82.35
06B	9.21	0.50	4.07	.22	2.03	.57	0.42	1.50		81.48
06C	10.79	0.50	4.07	.22	2.03	.57	0.42	1.50		79.90
07A	8.43	0.50	4.07	.22	2.03	.57	0.42	1.50		82.26
07B	8.35	0.50	4.07	.22	2.03	.57	0.42	1.50		82.34
07C	8.35	0.50	4.07	.22	2.03	.57	0.42	1.50		82.34
07D	8.35	0.50	4.07	.22	2.03	.57	0.42	1.50		82.34
08	9.96	0.67	4.22	.22	.91	.31	0.55	1.50		81.64
09	8.22	0.56	4.15	.21	3.43	.05	0.43	1.50	18.55	81.46
10	8.49	0.62	4.11	.16	.52	.25	0.41	1.50	16.07	83.94
11	8.58	0.63	4.15	.21	1.16	.18	0.41	1.50	16.81	83.17
12	8.36	0.57	4.08	.17	2.41	1.62	0.41	1.50	19.12	80.87
13	9.08	0.59	4.32	.23	5.14	3.02	0.42	1.50	24.31	75.79
14	8.15	0.32	3.93	.27	2.01	.10	0.41	1.50	16.70	83.30
15	8.17	0.43	3.97	.22	1.81	.05	0.42	1.50	16.57	83.43
16	8.19	0.41	4.05	.21	2.32	.32	0.42	1.50	17.41	82.56
17A	9.52	0.50	4.07	.22	2.03	.57	0.50	1.50		81.09
17B	8.43	0.50	4.07	.22	2.03	.57	0.50	1.50		82.18
17C	7.77	0.50	4.07	.22	2.03	.57	0.50	1.50		82.84
18A	8.51	0.50	4.07	.22	2.03	.57	0.50	1.50		82.10
18B	7.77	0.50	4.07	.22	2.03	.57	0.50	1.50		82.84
18C	7.15	0.50	4.07	.22	2.03	.57	0.50	1.50		83.46
19	8.41	0.46	4.03	.22	2.54	.88	0.42	1.50	18.46	81.51
20	11.09	0.39	4.00	.23	1.20	.73	0.69	1.50	19.83	80.17
21A	9.37	3.49	4.01	.09	.62	.94	0.50	1.50		79.48
21B	8.66	3.49	4.01	.09	.62	.94	0.50	1.50		80.19
21C	7.52	3.49	4.01	.09	.62	.94	0.50	1.50		81.33
22A	7.77	3.49	4.01	.09	.62	.94	0.50	1.50		81.08
22B	6.85	3.49	4.01	.09	.62	.94	0.50	1.50		82.00
22C	9.17	3.49	4.01	.09	.62	.94	0.50	1.50		79.68
23	8.15	3.47	4.03	.11	.97	.70	0.39	1.50	19.33	80.69
24	8.00	3.52	3.98	.09	.50		0.39	1.50	17.96	82.04
25	7.35	3.51	3.94	.07	.25	2.85	0.49	1.50	19.97	80.03
26	9.07	3.64	4.06	.10	.62	.04	0.39	1.50	19.42	80.59
27	7.92	3.06	3.84	.11	.56	.20	0.38	1.50	17.57	82.45
28	8.49	3.64	4.21	.09	.62	1.69	0.39	1.50	20.62	79.36
29	7.76	3.52	4.02	.04	.50		0.39	1.50	17.70	82.30
30A	11.44	3.52	4.04	.09	.62	.94	0.65	1.50		77.20
30B	10.93	3.52	4.04	.09	.62	.94	0.65	1.50		77.71
30C	9.84	3.52	4.04	.09	.62	.94	0.65	1.50		78.80
31A	8.79	3.52	4.04	.09	.62	.94	0.69	1.50		79.81
31B	9.46	3.52	4.04	.09	.62	.94	0.69	1.50		79.14
31C	10.58	3.52	4.04	.09	.62	.94	0.69	1.50		78.02
32A	6.85	3.46	3.97	.09	.62	.94	0.40	1.50		82.19
32B	7.41	3.46	3.97	.09	.62	.94	0.40	1.50		81.61
32C	7.81	3.46	3.97	.09	.62	.94	0.40	1.50		81.21

TABLE 11 SUMMARY OF BOILER HEAT LOSSES

ABMA TEST SITE C

33A	7.80	3.46	3.97	.09	.62	.94	0.40	1.50		81.22
33B	8.24	3.46	3.97	.09	.62	.94	0.40	1.50		80.78
33C	9.50	3.46	3.97	.09	.62	.94	0.40	1.50		79.52
34A	7.53	3.46	3.97	.09	.62	.94	0.41	1.50		81.48
34B	7.54	3.46	3.97	.09	.62	.94	0.41	1.50		81.47
34C	7.23	3.46	3.97	.09	.62	.94	0.41	1.50		81.78
34D	7.23	3.46	3.97	.09	.62	.94	0.41	1.50		81.78
35	10.50	3.59	4.04	.04	.21	9.54	0.69	1.50		69.90
36	7.54	3.57	4.04	.10	.33	.31	0.39	1.50	17.78	82.22
40	7.71	3.57	4.04	.08	.43	.04	0.38	1.50	17.75	82.26
41	10.39	0.95	3.55	.21	.76	.04	0.66	1.50	18.06	81.93
42	7.64	0.94	3.64	.28	1.32	.04	0.39	1.50	15.75	84.25
43	7.90	0.79	3.51	.24	1.04	.02	0.49	1.50	15.48	84.51
44	7.85	3.17	3.98	.09	.71	.09	0.40	1.50		82.21
45	7.63	3.63	3.90	.09	.43	.01	0.40	1.50		82.41
46	8.00	0.41	3.89	.22	1.05	.06	0.39	1.50		84.48
47	8.94	0.50	4.07	.22	2.03	.57	0.41	1.50		81.76
48A	8.76	0.50	4.07	.22	2.03	.57	0.41	1.50		81.94
48B	8.43	0.50	4.07	.22	2.03	.57	0.41	1.50		82.27
48C	7.83	0.50	4.07	.22	2.03	.57	0.41	1.50		82.87
49A	12.74	0.51	4.10	.22	2.03	.57	0.66	1.50		77.67
49B	10.73	0.51	4.10	.22	2.03	.57	0.66	1.50		79.68
49C	9.46	0.51	4.10	.22	2.03	.57	0.66	1.50		80.95
50A	10.51	0.51	4.10	.22	2.03	.57	0.66	1.50		79.90
50B	9.03	0.51	4.10	.22	2.03	.57	0.66	1.50		81.38
50C	8.05	0.51	4.10	.22	2.03	.57	0.66	1.50		82.36

TABLE 11

SUMMARY OF BOILER HEAT LOSSES

ADMA TEST SITE D

TEST NO.	DRY GAS %	MOISTURE IN FUEL %	H2O FROM H2 IN FUEL %	COMBUST. EMITTED FLY ASH %	COMBUST. COLLECTED FLY ASH %	COMBUST. BOTTOM ASH %	RADIATION %	UNMEASURED %	TOTAL LOSSES %	BOILER EFFICIENCY %
01	8.93	0.25	4.02	.27	***	2.06	0.68	1.50		82.29
02	9.45	0.24	4.12	.27	***	1.48	0.67	1.50		82.27
03	10.76	0.31	4.19	.40	***	4.81	0.70	1.50		77.33
04	9.40	0.29	4.07	.23	***	1.98	0.76	1.50		81.77
05	9.21	0.28	4.19	.35	***	1.52	0.57	1.50		82.38
06	8.92	0.26	4.05	.22	***	1.92	0.75	1.50		82.36
07	10.02	0.31	4.11	.18	***	2.21	0.77	1.50		80.90
08	10.19	0.28	4.06	.24	***	2.27	0.74	1.50		80.72
09	10.17	0.30	4.04	.15	***	1.10	1.08	1.50		81.66
10	9.36	0.31	4.08	.24	***	.76	0.77	1.50		82.98
11A	10.66	0.25	4.03	.27	***	2.06	0.93	1.50		80.30
11B	10.95	0.25	4.02	.27	***	2.06	0.93	1.50		80.02
11C	12.09	0.25	4.03	.27	***	2.06	0.93	1.50		78.87
12	9.40	0.32	4.09	.35	***	2.07	0.56	1.50		81.71
13	8.23	0.30	4.04	.34	***	2.89	0.55	1.50		82.15
14	8.16	0.27	3.98	.78	***	1.13	0.56	1.50		83.62
15	8.76	0.23	4.05	.34	***	.69	0.56	1.50		83.85
16	8.42	0.23	3.98	.30	***	.96	0.76	1.50		83.85
17	8.21	0.22	4.00	.48	***	.93	0.56	1.50		84.10
18	8.47	0.20	4.00	.40	***	1.45	0.62	1.50		83.36
22	9.26	0.21	3.93	.29	***	3.14	0.82	1.50		80.79
23	9.39	0.28	3.98	.29	***	3.78	0.80	1.50		79.98

TABLE 11 SUMMARY OF BOILER HEAT LOSSES PAGE 1

ABMA TEST SITE E

TEST NO.	DRY GAS %	MOISTURE IN FUEL %	H2O FROM H2 IN FUEL %	COMBUST. EMITTED FLY ASH %	COMBUST. COLLECTED FLY ASH %	COMBUST. BOTTOM ASH %	RADIATION %	UNMEASURED %	TOTAL LOSSES %	BOILER EFFICIENCY %
02	6.89	0.39	3.77	3.41	***	.40	0.63	1.50		83.41
03	6.65	0.59	3.88	2.91	***	.52	0.83	1.50		83.12
04	7.40	0.52	3.96	4.89	***	.47	0.53	1.50		80.73
05	9.26	0.79	3.99	6.09	***	.69	0.62	1.50		77.06
06	7.71	0.63	3.87	1.86	***	1.20	0.59	1.50		82.64
07	6.61	0.42	3.78	5.71	***	1.03	0.57	1.50		80.38
08	7.35	0.40	3.98	4.60	***	.32	0.63	1.50		81.32
09	6.81	0.48	3.73	3.62	***	1.95	0.68	1.50		81.23
10A	8.02	0.16	3.79	4.18	***	.98	0.63	1.50		80.72
10B	7.89	0.16	3.79	4.18	***	.98	0.63	1.50		80.85
10C	9.19	0.16	3.79	4.18	***	.98	0.63	1.50		79.55
10D	8.23	0.18	3.79	4.18	***	.98	0.63	1.50		80.51
10E	8.09	0.18	3.79	4.18	***	.98	0.63	1.50		80.65
11	7.02	0.48	3.84	3.67	***	1.69	0.62	1.50		81.18
12	6.95	0.55	3.86	2.52	***	.96	0.59	1.50		83.07
13	8.67	0.55	3.82	3.08	***	.81	0.79	1.50		80.78
14	6.31	0.45	3.84	7.83	***	.79	0.56	1.50		78.72
15	7.12	0.46	3.90	4.70	***	.91	0.55	1.50		80.86
16	8.35	0.71	3.86	4.70	***	.72	0.61	1.50		79.55
17	6.86	0.66	3.88	4.18	***	.50	0.62	1.50		81.80
18A	8.07	0.18	3.79	4.18	***	.98	0.59	1.50		80.71
18B	8.51	0.18	3.79	4.18	***	.98	0.59	1.50		80.27
18C	9.00	0.18	3.79	4.18	***	.98	0.59	1.50		79.78
18D	8.99	0.18	3.79	4.18	***	.98	0.59	1.50		79.79
20	7.49	0.80	3.85	5.40	***	.72	0.60	1.50		79.64

TABLE II

SUMMARY OF BOILER HEAT LOSSES

ABMA TEST SITE F

TEST NO.	DRY GAS %	MOISTURE IN FUEL %	H2O FROM H2 IN FUEL %	COMBUST. EMITTED FLY ASH %	COMBUST. COLLECTED FLY ASH %	COMBUST. BOTTOM ASH %	RADIATION %	UNMEASURED %	TOTAL LOSSES %	BOILER EFFICIENCY %
01	10.14	0.29	3.67	5.66	***	1.20	0.68	1.50		76.86
02	10.51	0.29	3.67	5.66	***	1.20	0.68	1.50		76.49
03	12.67	0.29	3.69	5.66	***	1.20	0.68	1.50		74.31
04	8.31	0.29	3.65	5.66	***	1.20	0.68	1.50		78.71
05	7.96	0.42	3.64	3.65	***	.97	0.94	1.50		80.92
06	8.38	0.29	3.62	5.66	***	1.20	0.96	1.50		78.39
07	9.81	0.29	3.62	5.66	***	1.20	0.96	1.50		76.96
08	6.96	0.29	3.61	5.66	***	1.20	0.96	1.50		79.86
09	12.47	0.29	3.64	5.66	***	1.20	0.96	1.50		74.28
10	9.91	0.29	3.71	5.66	***	1.20	0.53	1.50		77.20
11	10.20	0.29	3.71	5.66	***	1.20	0.52	1.50		76.92
12	10.00	0.29	3.71	5.66	***	1.20	0.52	1.50		77.12
13	8.30	0.29	3.69	5.66	***	1.20	0.52	1.50		78.84
14	8.41	0.29	3.69	5.66	***	1.20	0.52	1.50		78.73
15	10.09	0.52	3.82	5.43	***	1.20	0.52	1.50		74.71
16A	9.03	0.29	3.70	5.66	***	3.40	0.52	1.50		78.10
16B	8.51	0.29	3.70	5.66	***	1.20	0.52	1.50		78.62
16C	9.17	0.29	3.70	5.66	***	1.20	0.52	1.50		77.96
17	8.70	0.47	3.74	5.60	***	1.20	0.52	1.50		77.73
18	8.30	0.52	3.90	6.39	***	1.73	0.52	1.50		77.82
19	9.06	0.74	3.95	9.16	***	1.05	0.52	1.50		73.59
20	8.89	0.19	3.55	3.89	***	1.48	0.52	1.50		80.86
21	8.94	0.18	3.66	5.31	***	.45	0.68	1.50		78.73
22	8.18	0.27	3.70	5.66	***	1.03	0.67	1.50		79.50
23A	5.62	0.19	3.46	4.99	***	.67	0.52	1.50		82.96
23B	8.24	0.22	3.65	5.66	***	.78	0.51	1.50		79.07
24	7.54	0.31	3.71	6.98	***	1.15	0.52	1.50		77.96
25	10.53	0.32	3.70	5.62	***	1.50	0.50	1.50		76.76
26	8.94	0.32	3.70	5.62	***	1.05	0.52	1.50		78.35
27	8.53	0.32	3.69	5.62	***	1.05	0.52	1.50		78.77
28	7.73	0.32	3.69	5.62	***	1.05	0.52	1.50		79.57
29	7.92	0.31	3.69	6.25	***	1.05	0.52	1.50		78.77
30	7.65	0.34	3.69	5.62	***	1.05	0.51	1.50		79.83
31	10.94	0.32	3.70	5.62	***	.87	0.50	1.50		76.19
32	12.71	0.32	3.71	5.62	***	1.05	0.68	1.50		74.41
33	8.95	0.32	3.70	5.62	***	1.05	0.68	1.50		78.20
34	7.41	0.32	3.69	5.62	***	1.05	0.66	1.50		79.73
35	9.77	0.37	3.78	4.98	***	1.49	0.67	1.50		77.44

TABLE 11

SUMMARY OF BOILER HEAT LOSSES

ABMA TEST SITE G

TEST NO.	DRY GAS %	MOISTURE IN FUEL %	H2O FROM H2 IN FUEL %	COMBUST. EMITTED FLY ASH %	COMBUST. COLLECTED FLY ASH %	COMBUST. BOTTOM ASH %	RADIATION %	UNMEASURED %	TOTAL LOSSES %	BOILER EFFICIENCY %
02	14.70	0.45	4.27	3.60	***	1.18	0.62	1.50		73.68
03	13.45	0.42	4.07	3.28	***	.27	0.66	1.50		76.35
04	15.08	0.54	4.15	5.59	***	.44	0.68	1.50		72.00
05	14.26	0.79	4.52	4.89	***	.53	0.52	1.50		73.00
06	12.52	0.29	3.94	2.88	***	.35	0.90	1.50		77.62
07	18.10	0.26	3.88	1.47	***	.14	2.91	1.50		71.73
08	12.28	0.26	4.14	2.01	***	.14	0.53	1.50		79.15
09	15.50	0.41	4.16	3.93	***	.37	0.72	1.50		73.40
10	15.20	0.38	4.18	5.45	***	.60	0.61	1.50		72.09
11A	12.59	0.44	4.15	3.93	***	.56	0.67	1.50		76.18
11B	12.45	0.44	4.13	3.93	***	.56	0.67	1.50		76.34
11C	10.84	0.43	4.10	3.93	***	.56	0.67	1.50		77.97
11D	10.09	0.43	4.09	3.93	***	.56	0.67	1.50		78.73
12A	13.44	0.45	4.21	3.93	***	.56	0.54	1.50		75.37
12B	12.53	0.44	4.20	3.93	***	.56	0.54	1.50		76.30
12C	12.33	0.44	4.20	3.93	***	.56	0.54	1.50		76.50
12D	11.77	0.44	4.17	3.93	***	.56	0.54	1.50		77.09
12E	11.10	0.44	4.17	3.93	***	.56	0.54	1.50		77.76
15	13.92	0.42	4.14	3.93	***	1.27	0.60	1.50		74.22
16	17.59	0.36	3.86	1.57	***	.61	3.19	1.50		71.31
17	13.29	0.37	4.13	4.42	***	.33	0.54	1.50		75.43
18	13.77	0.51	4.41	3.78	***	1.17	0.54	1.50		74.32
19	19.55	0.40	3.91	1.50	***	.56	3.04	1.50		69.55
20	13.84	0.47	4.27	3.19	***	.73	0.67	1.50		75.33
22	14.01	0.45	4.22	3.74	***	1.17	0.64	1.50		74.27
23	12.61	0.44	4.25	3.35	***	.73	0.69	1.50		76.45
24	11.69	0.37	4.17	3.65	***	.77	0.67	1.50		77.18
25A	12.01	0.45	4.26	3.19	***	.85	0.53	1.50		77.19
25B	11.67	0.45	4.28	3.19	***	.85	0.53	1.50		77.53
25C	11.66	0.45	4.28	3.19	***	.85	0.53	1.50		77.54
25D	10.74	0.45	4.28	3.19	***	.85	0.53	1.50		78.46
26A	12.55	0.44	4.25	3.19	***	.85	0.67	1.50		76.57
26B	11.62	0.44	4.22	3.19	***	.85	0.67	1.50		77.51
26C	10.39	0.44	4.20	3.19	***	.85	0.67	1.50		78.76
26D	9.57	0.44	4.17	3.19	***	.85	0.67	1.50		79.61

TABLE 11 SUMMARY OF BOILER HEAT LOSSES

ABMA TEST SITE H

TEST NO.	DRY GAS %	MOISTURE IN FUEL %	H2O FROM H2 IN FUEL %	COMBUST. EMITTED FLY ASH %	COMBUST. COLLECTED FLY ASH %	COMBUST. BOTTOM ASH %	RADIATION %	UNMEASURED %	TOTAL LOSSES %	BOILER EFFICIENCY %
01A	15.79	1.26	4.28	.44	***	1.92	0.74	1.50		74.07
01B	18.96	1.26	4.28	.44	***	1.92	0.74	1.50		70.90
03	13.02	1.14	4.15	0.73	***	1.53	0.64	1.50		77.27
05	12.63	1.37	4.14	.46	***	2.59	0.65	1.50		76.67
06	12.84	1.40	4.26	0.33	***	2.72	0.67	1.50		76.28
09	11.67	1.10	3.95	0.33	***	2.18	1.23	1.50		78.06
11	16.88	1.18	4.32	.44	***	0.42	0.65	1.50		74.61

TABLE 11 SUMMARY OF BOILER HEAT LOSSES PAGE 1

ABMA TEST SITE I

TEST NO.	DRY GAS %	MOISTURE IN FUEL %	H2O FROM H2 IN FUEL %	COMBUST. EMITTED FLY ASH %	COMBUST. COLLECTED FLY ASH %	COMBUST. BOTTOM ASH %	RADIATION %	UNMEASURED %	TOTAL LOSSES %	BOILER EFFICIENCY %
01	20.41	0.41	4.43	.18	***	8.87	1.06	1.50		63.19
02	16.20	0.39	4.52	.94	***	2.78	0.55	1.50		73.14
03	17.56	0.34	4.54	.32	***	5.13	0.52	1.50		70.06
04	16.07	0.36	4.55	.33	***	5.68	0.54	1.50		70.96
05	16.38	0.27	4.44	.39	***	4.93	0.66	1.50		71.43
06	13.46	0.26	4.30	.41	***	4.87	0.55	1.50		74.61
07A	15.03	0.31	4.45	.41	***	5.41	0.52	1.50		72.37
07B	14.06	0.31	4.44	.41	***	5.41	0.52	1.50		73.33
08A	16.48	0.30	4.34	.41	***	5.41	0.75	1.50		70.81
09	13.95	0.29	4.34	.41	***	4.42	0.53	1.50		74.56
10	17.87	0.22	4.28	.29	***	.90	1.11	1.50		73.83
14	17.31	0.20	4.35	.54	***	1.25	0.75	1.50		74.13
15	14.84	0.24	4.36	.58	***	.82	0.54	1.50		77.12
16A	20.11	0.22	4.43	.47	***	1.09	0.53	1.50		71.65
16C	14.28	0.22	4.36	.47	***	1.09	0.53	1.50		77.55
18	17.27	0.18	4.41	.47	***	1.00	0.53	1.50		74.64

TABLE 11

SUMMARY OF BOILER HEAT LOSSES

ABMA TEST SITE J

TEST NO.	DRY GAS %	MOISTURE IN FUEL %	H2O FROM H2 IN FUEL %	COMBUST. EMITTED FLY ASH %	COMBUST. COLLECTED FLY ASH %	COMBUST. BOTTOM ASH %	RADIATION %	UNMEASURED %	TOTAL LOSSES %	BOILER EFFICIENCY %
01	11.89	0.25	3.95	0.14	***	1.60	1.10	1.50		79.53
02	11.75	0.27	4.07	0.28	***	1.24	0.73	1.50		80.15
05	10.48	0.42	4.37	.49	***	2.65	0.53	1.50		79.58
06	9.74	0.17	3.90	.27	***	.91	0.55	1.50		82.95
07	9.09	0.26	4.02	.16	***	1.75	0.63	1.50		82.59
08	8.21	0.16	3.77	.30	***	2.21	0.73	1.50		83.12
09	11.62	0.27	4.20	.27	***	1.01	1.07	1.50		80.13
13	10.01	0.45	4.26	.29	***	1.93	0.53	1.50		81.03
14	9.78	0.29	4.14	.36	***	3.60	0.56	1.50		79.77
15	8.98	0.18	3.84	.28	***	1.46	0.57	1.50		83.17
16	10.73	0.34	4.18	.29	***	1.83	0.58	1.50		80.56

TABLE 11

SUMMARY OF BOILER HEAT LOSSES

ABMA TEST SITE K

TEST NO.	DRY GAS %	MOISTURE IN FUEL %	H2O FROM H2 IN FUEL %	COMBUST. EMITTED FLY ASH %	COMBUST. COLLECTED FLY ASH %	COMBUST. BOTTOM ASH %	RADIATION %	UNMEASURED %	TOTAL LOSSES %	BOILER EFFICIENCY %
01	11.20	0.49	4.09	.58	***	1.80	0.64	1.50		79.63
02	16.61	0.67	4.14	.39	***	1.61	1.22	1.50		73.77
03	12.43	0.57	4.01	.37	***	2.17	0.86	1.50		78.09
04	10.95	0.67	4.06	.40	***	2.68	0.62	1.50		79.10
05	10.75	0.54	4.03	.45	***	6.83	0.65	1.50		75.23
06	12.23	0.67	4.23	.28	***	7.94	0.65	1.50		72.58
07	10.56	0.71	4.16	.33	***	2.54	0.62	1.50		79.55
08	10.86	0.64	4.15	.27	***	2.05	0.62	1.50		79.83
09	15.05	0.54	4.03	.17	***	15.96	1.50	1.50		61.22
10	12.31	0.48	3.99	.35	***	2.38	0.84	1.50		78.14
11	9.94	0.58	4.04	.26	***	2.85	0.61	1.50		80.21
12	16.02	0.57	4.01	.55	***	3.11	1.04	1.50		73.21
13	16.18	0.64	4.08	1.06	***	4.15	0.80	1.50		71.58
14	13.96	0.62	4.35	1.12	***	8.07	0.61	1.50		69.75
15	12.40	0.73	4.12	.54	***	2.66	0.85	1.50		77.22
16	9.71	0.62	4.06	.67	***	0.93	0.61	1.50		81.92
17	13.06	0.67	4.12	.32	***	13.97	1.10	1.50		65.29
18	12.36	0.62	4.09	.35	***	1.49	0.79	1.50		78.80

TABLE 12

MISCELLANEOUS INFORMATION

Site	Test	Steam Flow lb/hr	Feedwater Flow lb/hr	Inlet Air Temp. °F	Flue Gas Temp. °F
A	01	191000.	211000.	72.	346.
A	02A	177000.	196000.	72.	334.
A	02B	177000.	196000.	72.	334.
A	02C	177000.	196000.	72.	334.
A	02D	177000.	196000.	72.	334.
A	02E	177000.	196000.	72.	334.
A	02F	177000.	196000.	72.	334.
A	02G	177000.	196000.	72.	334.
A	02H	177000.	196000.	72.	334.
A	03	182000.	196000.	72.	337.
A	04	180000.	207000.	72.	350.
A	05	217000.	239000.	72.	360.
A	06	210000.	235000.	72.	373.
A	07A	203000.	218000.	72.	350.
A	07B	203000.	218000.	72.	350.
A	07C	203000.	218000.	72.	350.
A	07D	203000.	218000.	72.	350.
A	07E	203000.	218000.	72.	350.
A	08A	196000.	197000.	72.	349.
A	08B	196000.	197000.	72.	349.
A	09	182000.	220000.	72.	342.
A	10	110000.	126000.	72.	325.
A	11A	124000.	139000.	72.	328.
A	11B	124000.	139000.	72.	328.
A	11C	124000.	139000.	72.	328.
A	11D	124000.	139000.	72.	328.
A	11E	124000.	139000.	72.	328.
A	11F	124000.	139000.	72.	328.
A	12	136000.	154000.	72.	327.
A	13A	232000.	260000.	72.	370.
A	13B	232000.	260000.	72.	370.
A	14A	217000.	222000.	72.	359.
A	14B	217000.	222000.	72.	359.
A	15	220000.	236000.	72.	361.
A	16	178000.	192000.	74.	349.
A	17A	156296.	182000.	72.	331.
A	17B	156296.	182000.	72.	331.
A	18A	139000.	163000.	70.	331.
A	18B	139000.	163000.	64.	331.
A	19	132000.	152000.	64.	327.
A	20	127000.	128000.	65.	316.
A	21	245455.	245000.	66.	386.
A	22	249851.	252000.	66.	392.
A	23	176000.	188000.	67.	350.
A	24	176000.	186000.	75.	350.

TABLE 12

MISCELLANEOUS INFORMATION

Site	Test	Steam Flow lb/hr	Feedwater Flow lb/hr	Inlet Air Temp °F	Flue Gas Temp °F
A	25A	222000.	224000.	74.	355.
A	25B	222000.	224000.	73.	355.
A	26A	211000.	211000.	72.	378.
A	26B	221000.	223000.	70.	378.
A	27	243000.	244000.	71.	398.
A	28	251000.	249000.	68.	407.
A	29	255000.	248000.	68.	410.
A	30	239000.	237000.	77.	402.
A	31A	159000.	162000.	77.	337.
A	31B	159000.	162000.	77.	337.
A	31C	159000.	162000.	77.	335.
A	31D	159000.	162000.	76.	335.
A	31E	159000.	162000.	76.	340.
A	31F	159000.	162000.	76.	340.
A	32	248000.	264000.	76.	410.
A	34A	289000.	240000.	70.	376.
A	34B	289000.	240000.	70.	376.
A	35A	227000.	226000.	70.	389.
A	35B	227000.	233000.	70.	387.
A	36	240000.	234000.	70.	373.
A	37	259000.	252000.	70.	384.
A	38	176000.	181000.	70.	344.
A	39	180000.	181000.	70.	341.
A	40	198000.	195000.	62.	371.
B	01	82136.	84446.	70.	360.
B	02	55345.	56379.	70.	360.
B	03	54333.	58000.	70.	350.
B	04	94557.	98734.	70.	381.
B	05	93333.	96369.	70.	360.
B	06	150982.	156000.	70.	396.
B	07	151685.	159775.	70.	393.
B	08	149000.	154000.	70.	408.
B	09	145000.	148000.	71.	393.
B	10A	62535.	64225.	50.	360.
B	10B	62535.	64225.	50.	355.
B	10C	62535.	64225.	50.	360.
B	10D	62535.	64225.	50.	358.
B	11	95226.	98323.	52.	383.
B	12	97476.	101026.	51.	383.
B	13A	143168.	149921.	50.	345.
B	13B	143168.	149921.	50.	370.
B	13C	143168.	149921.	50.	390.
B	14A	184565.	191489.	50.	410.
B	14B	184565.	191489.	50.	407.
B	14C	184565.	191489.	50.	405.
B	14D	184565.	191489.	50.	410.

TABLE 12

MISCELLANEOUS INFORMATION

Site	Test	Steam Flow lb/hr	Feedwater Flow lb/hr	Inlet Air Temp °F	Flue Gas Temp °F
B	15	174803.	181890.	48.	396.
B	16	177360.	184080.	48.	409.
B	17	176667.	180952.	53.	405.
B	18	147337.	153373.	58.	397.
B	19	150233.	154884.	50.	392.
B	20	145581.	150698.	55.	395.
B	21	145652.	151739.	49.	402.
B	22	143607.	150984.	57.	395.
B	23	197863.	195573.	50.	412.
B	24	197500.	201346.	58.	399.
B	25	200400.	206000.	62.	402.
B	26A	198030.	203485.	60.	404.
B	26C	198030.	203485.	60.	404.
B	27	158769.	165692.	66.	391.
B	28	161739.	194087.	70.	390.
B	29	158537.	165366.	68.	403.
B	30	157929.	165000.	64.	405.
B	31	153947.	158487.	68.	399.
B	32	156000.	168141.	78.	399.
B	33	157550.	159536.	62.	395.
C	01	179870.	199810.	80.	320.
C	05A	173835.	197190.	80.	320.
C	05B	176835.	197190.	80.	320.
C	05C	176835.	197190.	80.	320.
C	06A	167526.	185520.	80.	320.
C	06B	167526.	185520.	80.	320.
C	06C	167526.	185520.	80.	320.
C	07A	168840.	187200.	80.	320.
C	07B	168840.	187200.	80.	320.
C	07C	168840.	187200.	80.	320.
C	07D	168840.	187200.	80.	320.
C	08	125879.	144220.	80.	320.
C	09	163317.	181290.	83.	320.
C	10	169782.	191920.	81.	320.
C	11	169816.	193220.	83.	320.
C	12	169816.	188540.	83.	320.
C	13	165634.	185000.	73.	320.
C	14	169658.	187750.	82.	320.
C	15	166538.	184740.	82.	320.
C	16	169204.	191000.	78.	320.
C	17A	138731.	152250.	80.	320.
C	17B	138731.	152250.	80.	320.
C	17C	138731.	152250.	80.	320.
C	18A	138731.	152250.	80.	320.
C	18B	138731.	152250.	80.	320.
C	18C	138731.	152250.	80.	320.
C	19	168000.	182480.	68.	320.

TABLE 12

MISCELLANEOUS INFORMATION

Site	Test	Steam Flow lb/hr	Feedwater Flow lb/hr	Inlet Air Temp °F	Flue Gas Temp °F
C	20	100909.	123680.	80.	342.
C	21A	140000.	154460.	80.	320.
C	21B	140000.	154460.	80.	320.
C	21C	140000.	154460.	80.	320.
C	22A	140000.	154460.	80.	320.
C	22B	140000.	154460.	80.	320.
C	22C	140000.	154460.	80.	320.
C	23	181700.	196600.	75.	320.
C	24	179498.	191470.	84.	320.
C	25	142727.	156400.	91.	320.
C	26	180963.	194570.	76.	320.
C	27	182982.	194280.	80.	320.
C	28	180880.	193200.	83.	320.
C	29	182045.	191940.	88.	320.
C	30A	106800.	117400.	80.	342.
C	30B	106800.	117400.	80.	342.
C	30C	106800.	117400.	80.	342.
C	31A	100710.	114480.	80.	342.
C	31B	100710.	114480.	80.	342.
C	31C	100710.	114480.	80.	342.
C	32A	174646.	189000.	91.	320.
C	32B	174646.	189000.	91.	320.
C	32C	174646.	189000.	91.	320.
C	33A	175778.	188480.	91.	320.
C	33B	175778.	188480.	91.	320.
C	33C	175778.	188480.	91.	320.
C	34A	173297.	186910.	91.	320.
C	34B	173297.	186910.	91.	320.
C	34C	173297.	186910.	91.	320.
C	34D	173297.	186910.	91.	320.
C	35	100134.	111910.	79.	342.
C	36	178381.	189110.	86.	320.
C	40	186439.	204230.	82.	320.
C	41	105201.	121070.	74.	342.
C	42	180409.	195840.	80.	320.
C	43	142250.	160750.	64.	320.
C	44	177709.	192230.	79.	320.
C	45	177709.	193740.	82.	320.
C	46	180729.	198240.	79.	320.
C	47	169725.		80.	320.
C	48A	169725.	187650.	80.	320.
C	48B	169725.	187650.	80.	320.
C	48C	169725.	187650.	80.	320.
C	49A	105850.	121020.	80.	342.
C	49B	105850.	121020.	80.	342.
C	49C	105850.	121020.	80.	342.
C	50A	105850.	121020.	80.	342.
C	50B	105850.	121020.	80.	342.
C	50C	105850.	121020.	80.	342.

TABLE 12

MISCELLANEOUS INFORMATION

Site	Test	Steam Flow lb/hr	Inlet Air Temp °F	Flue Gas Temp °F
D	01	65000.	73.	360.
D	02	65567.	73.	359.
D	03	62379.	69.	367.
D	04	57400.	88.	361.
D	05	76986.	77.	382.
D	06	58644.	75.	362.
D	07	57000.	79.	374.
D	08	59016.	71.	374.
D	09	40071.	82.	342.
D	10	56897.	85.	370.
D	11A	46857.	70.	358.
D	11B	46857.	70.	353.
D	11C	46857.	70.	358.
D	12	78634.	70.	389.
D	13	80331.	95.	387.
D	14	78082.	93.	386.
D	15	79263.	73.	374.
D	16	57710.	80.	351.
D	17	78726.	80.	372.
D	18	71124.	90.	370.
D	22	53217.	70.	345.
D	23	54894.	72.	347.
E	02	109500.	98.	332.
E	03	82900.	92.	308.
E	04	131200.	92.	362.
E	05	110800.	92.	357.
E	06	116900.	92.	355.
E	07	121400.	91.	360.
E	08	109500.	91.	360.
E	09	102000.	92.	323.
E	10A	109000.	92.	360.
E	10B	109000.	92.	360.
E	10C	109000.	92.	360.
E	10D	109000.	92.	360.
E	10E	109000.	92.	360.
E	11	112100.	92.	358.
E	12	117600.	91.	354.
E	13	86400.	92.	349.
E	14	124600.	93.	360.
E	15	125800.	90.	371.
E	16	112200.	92.	363.
E	17	111200.	92.	359.
E	18A	117900.	92.	357.
E	18B	117900.	92.	357.
E	18C	117900.	92.	357.
E	18D	117900.	92.	357.
E	20	114100.	92.	362.

TABLE 12

MISCELLANEOUS INFORMATION

Site	Test	Steam Flow lb/hr	Feedwater Flow lb/hr	Inlet Air Temp °F	Flue Gas Temp °F
F	01	60029.	62250.	77.	377.
F	02	60029.	62250.	77.	376.
F	03	60029.	62250.	77.	387.
F	04	60029.	62250.	77.	360.
F	05	43000.		77.	308.
F	06	42300.		77.	339.
F	07	42300.		77.	339.
F	08	42300.		77.	330.
F	09	42300.		77.	350.
F	10	78134.		77.	401.
F	11	79290.		77.	402.
F	12	79290.		78.	402.
F	13	79290.		78.	390.
F	14	79290.		78.	393.
F	15	78973.		80.	400.
F	16A	79673.		78.	396.
F	16B	79673.		78.	396.
F	16C	79673.		78.	396.
F	17	79333.		80.	395.
F	18	79323.		79.	386.
F	19	79282.		81.	394.
F	20	59754.		75.	364.
F	21	61116.		81.	369.
F	22	79473.		75.	390.
F	23A	79984.		83.	305.
F	23B	79472.		83.	386.
F	24	81957.		69.	388.
F	25	79488.		82.	400.
F	26	79488.		82.	400.
F	27	79488.		81.	389.
F	28	79488.		80.	386.
F	29	80400.		80.	388.
F	30	81499.		82.	390.
F	31	59970.		68.	370.
F	32	59970.		69.	380.
F	33	59970.		68.	370.
F	34	59970.		66.	360.
F	35	60616.		70.	372.
G	02	63750.		67.	500.
G	03	59707.		67.	493.
G	04	57557.		75.	493.
G	05	76278.		73.	540.
G	06	43060.		73.	430.
G	07	13005.		73.	323.
G	08	74690.		73.	511.
G	09	54217.		79.	493.

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TABLE 12

MISCELLANEOUS INFORMATION

Site	Test	Steam Flow lb/hr	Inlet Air Temp °F	Flue Gas Temp °F
G	10	64508.	80.	517.
G	11A	58418.	74.	480.
G	11B	58418.	74.	475.
G	11C	58418.	74.	460.
G	11D	58418.	74.	450.
G	12A	73703.	74.	530.
G	12B	73703.	74.	520.
G	12C	73703.	74.	520.
G	12D	73703.	74.	500.
G	12E	73703.	74.	500.
G	15	65571.	74.	506.
G	16	11854.	74.	319.
G	17	73268.	75.	530.
G	18	72857.	74.	526.
G	19	12449.	77.	320.
G	20	58286.	73.	497.
G	22	61780.	75.	498.
G	23	56667.	69.	480.
G	24	58690.	76.	477.
G	25A	74645.	74.	519.
G	25B	74645.	74.	519.
G	25C	74645.	74.	519.
G	25D	74645.	74.	519.
G	26A	58361.	74.	490.
G	26B	58361.	74.	485.
G	26C	58361.	74.	470.
G	26D	58361.	74.	452.
H	01A	39500.	80.	512.
H	01B	39500.	80.	512.
H	02A	43200.	80.	
H	02B	43200.	80.	
H	02C	43200.	80.	
H	02D	43200.	80.	
H	02E	43200.	80.	
H	02F	43200.	80.	
H	03	45700.	80.	510.
H	04A	22433.	80.	
H	04C	22433.	80.	
H	05	44533.	80.	425.
H	06	43800.	80.	425.
H	07A	33975.	80.	
H	07B	33975.	80.	
H	07C	33975.	80.	
H	07D	33975.	80.	
H	08	33666.	80.	
H	09	23333.	80.	338.
H	10A	22875.	80.	
H	10B	22875.	80.	
H	10C	22875.	80.	
H	10D	22875.	80.	
H	10E	22875.	80.	
H	11	45000.	80.	540.

TABLE 12

MISCELLANEOUS INFORMATION

Site	Test	Steam Flow lb/hr	Inlet Air Temp °F	Flue Gas Temp °F
I	01	35207.	49.	510.
I	02	68462.	50.	592.
I	03	72188.	48.	628.
I	04	70000.	56.	605.
I	05	57143.	56.	553.
I	06	68936.	91.	600.
I	07A	72727.	89.	625.
I	07B	72727.	89.	615.
I	07C	72727.	89.	
I	08A	50294.	89.	555.
I	08B	50294.	89.	
I	08C	50294.	89.	
I	08D	50294.	89.	
I	09	71345.	89.	628.
I	10	33488.	77.	515.
I	14	50000.	70.	546.
I	15	70612.	70.	584.
I	16A	71087.	70.	630.
I	16B	71087.	70.	
I	16C	71087.	70.	585.
I	16D	71087.	70.	
I	16E	71087.	70.	
I	18	71000.	66.	630.
J	01	33766.	75.	319.
J	02	51652.	75.	360.
J	03	70000.		
J	04	70000.		
J	05	71822.	70.	367.
J	06	69016.	70.	367.
J	07	59463.	81.	340.
J	08	51200.	83.	317.
J	09	34699.	82.	303.
J	13	71719.	75.	362.
J	14	68000.	80.	361.
J	15	65760.	81.	350.
J	16	64808.	74.	350.

TABLE 12

MISCELLANEOUS INFORMATION

Site	Test	Steam Flow lb/hr	Inlet Air Temp °F	Flue Gas Temp °F
K	01	48708.	73.	394.
K	02	24968.	67.	364.
K	03	35593.	84.	383.
K	04	49750.	81.	398.
K	05	47750.	67.	393.
K	06	47454.	67.	405.
K	07	50250.	67.	395.
K	08	50000.	57.	392.
K	09	20250.	68.	345.
K	10	36782.	77.	381.
K	11	51102.	77.	402.
K	12	29357.	67.	383.
K	13	33250.	61.	392.
K	14	50602.	61.	408.
K	15	36316.	69.	373.
K	16	50800.	76.	393.
K	17	27750.	67.	360.
K	18	39000.	69.	385.

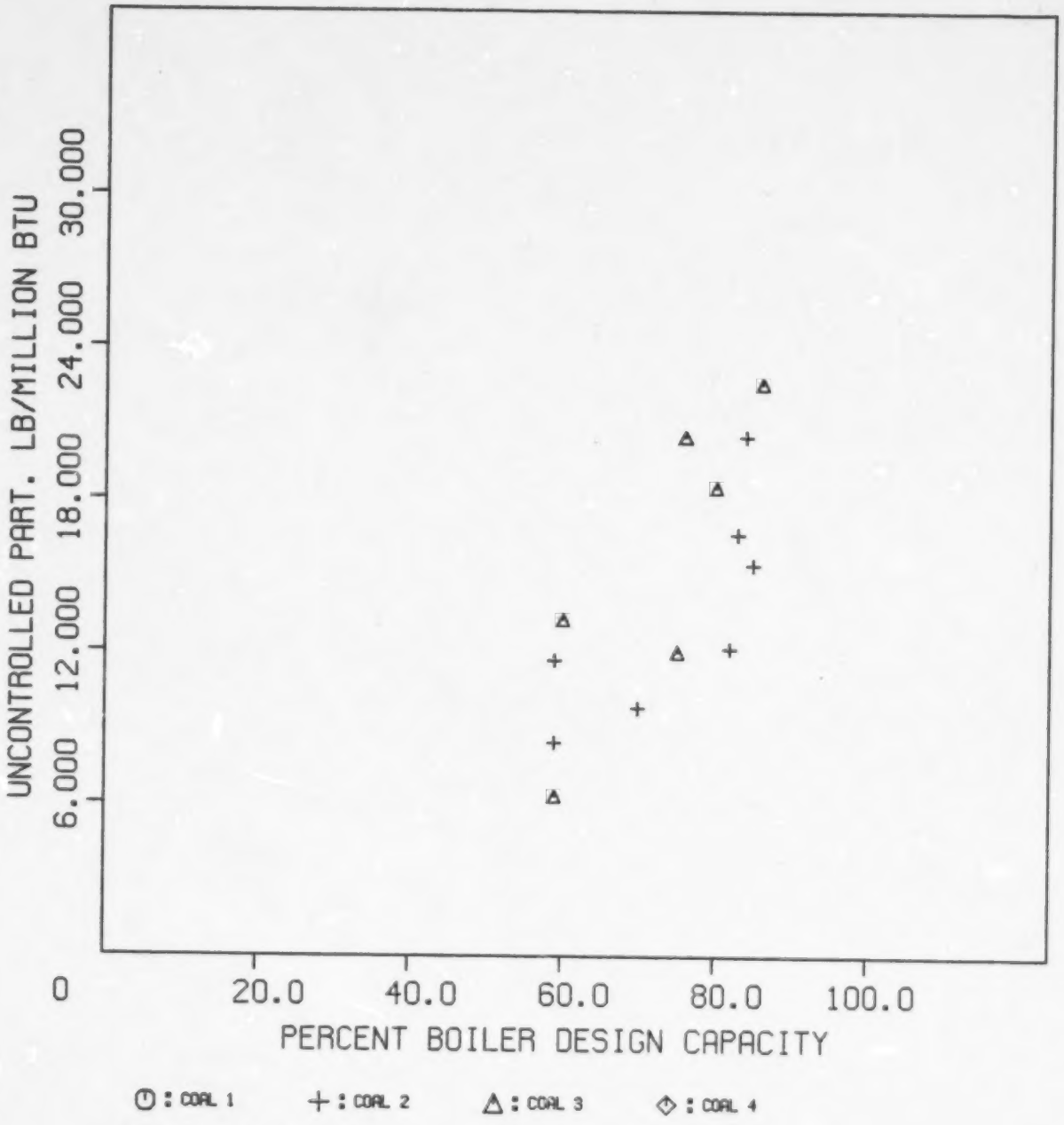


FIG. SITE A
UNCONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

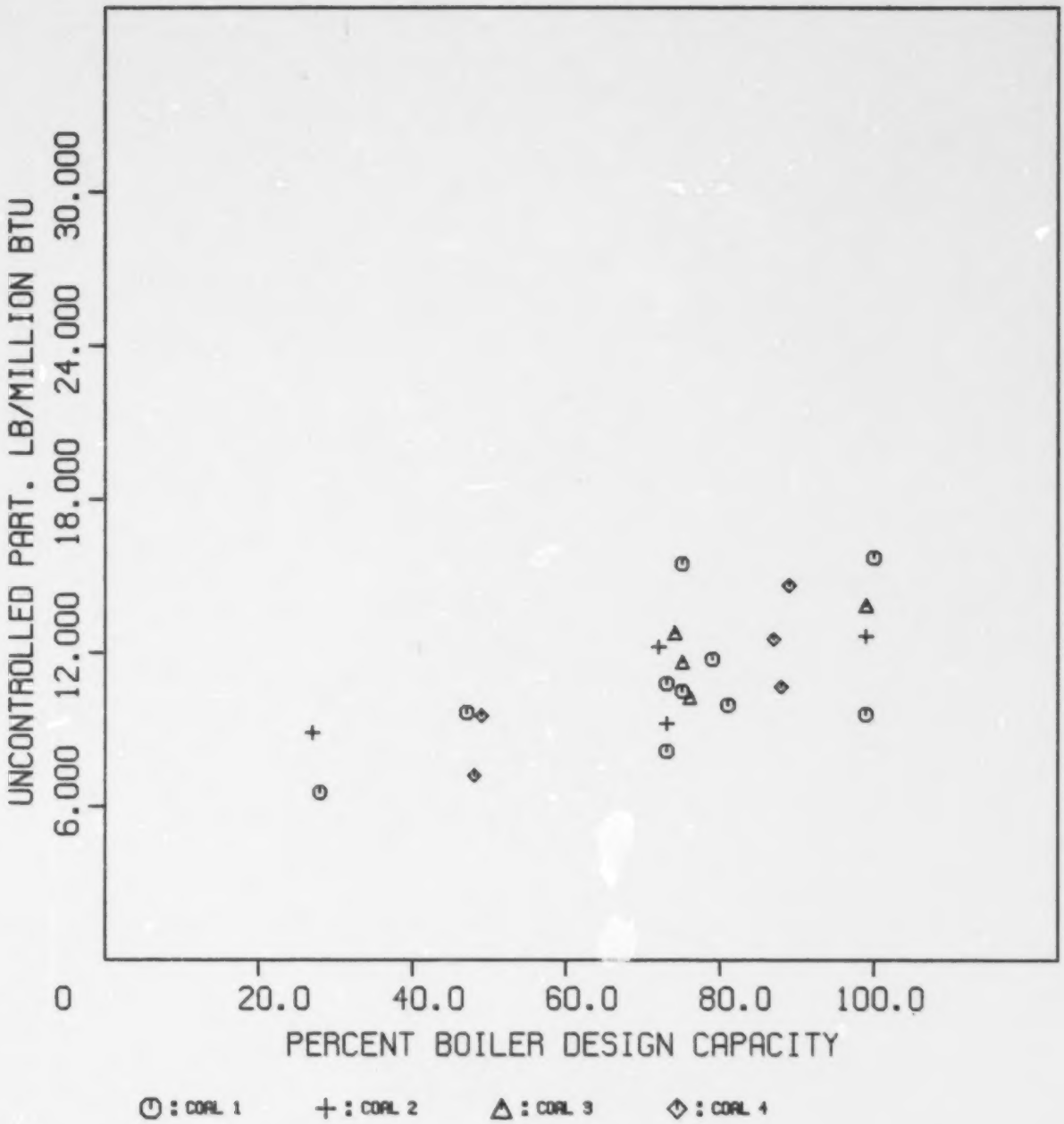


FIG. SITE B
UNCONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

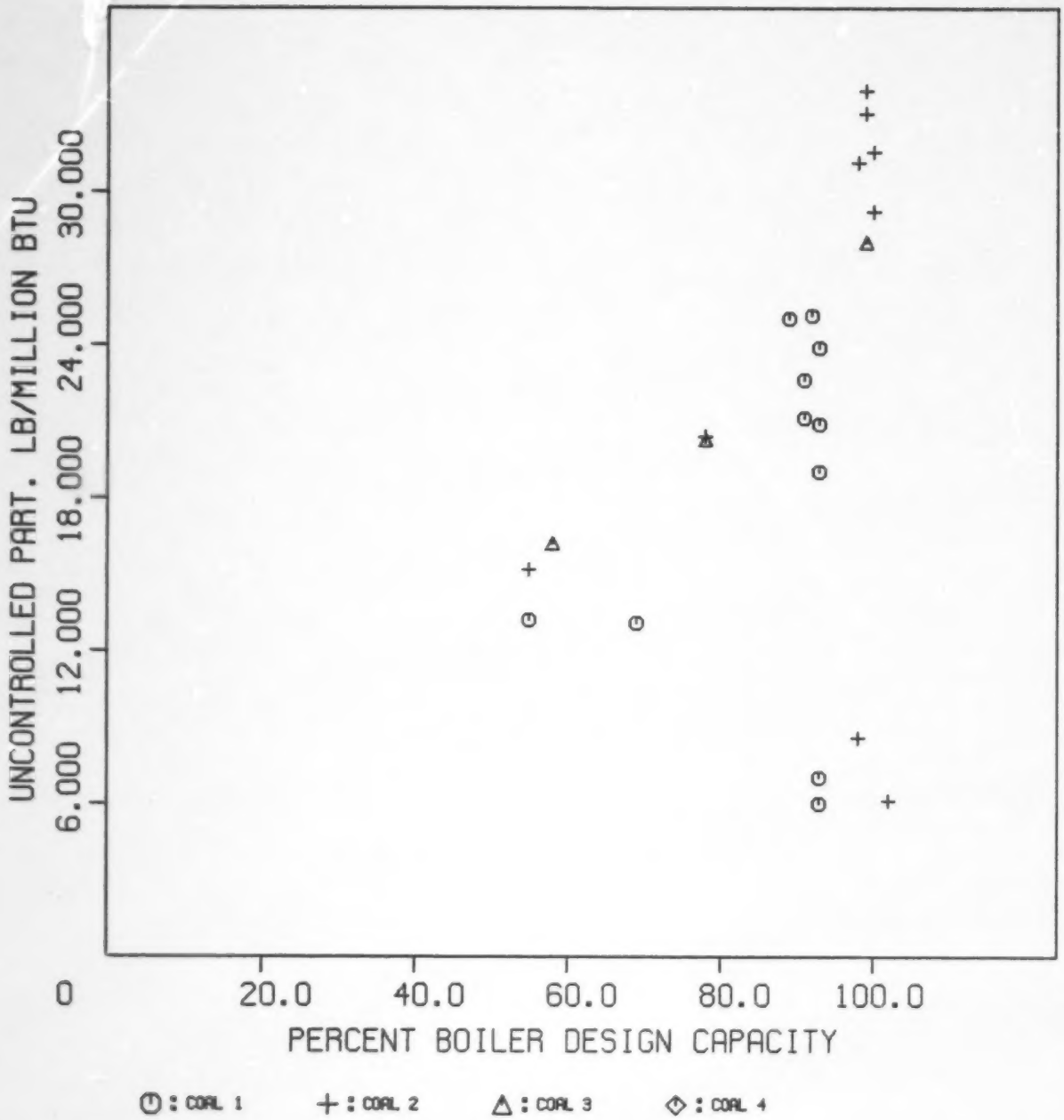


FIG. SITE C
UNCONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

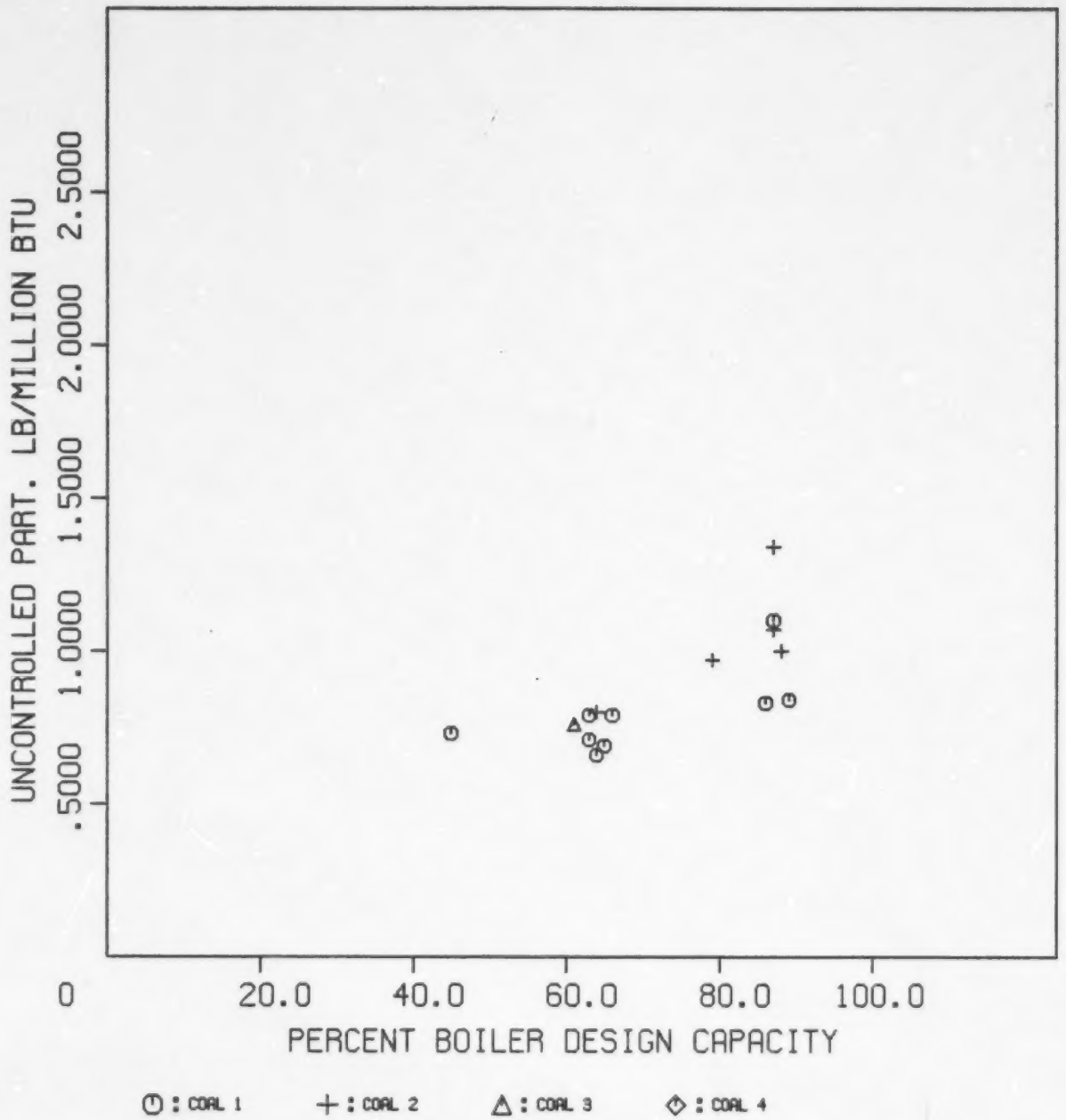


FIG. SITE D
UNCONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

KYB4-15900-554

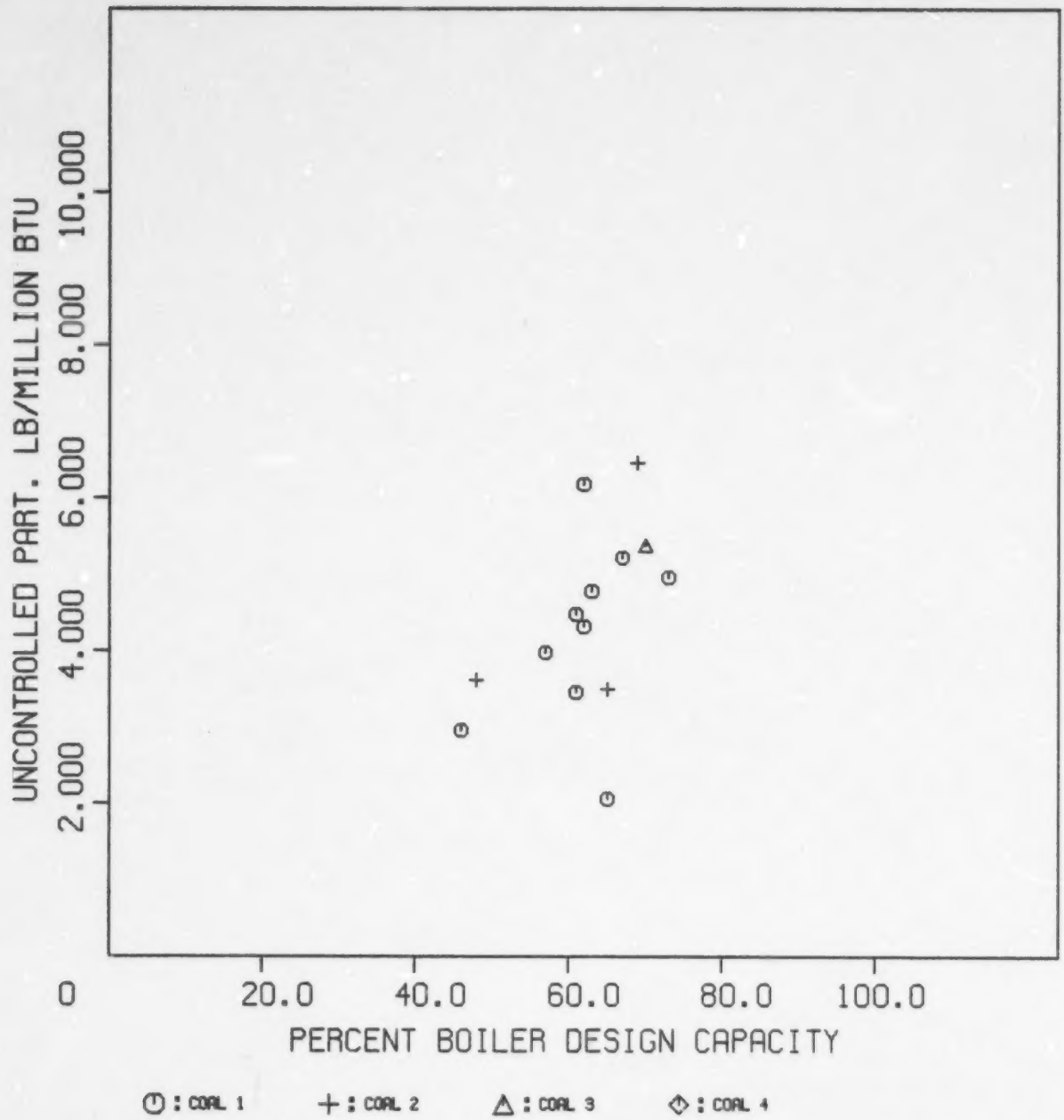


FIG. SITE E
UNCONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

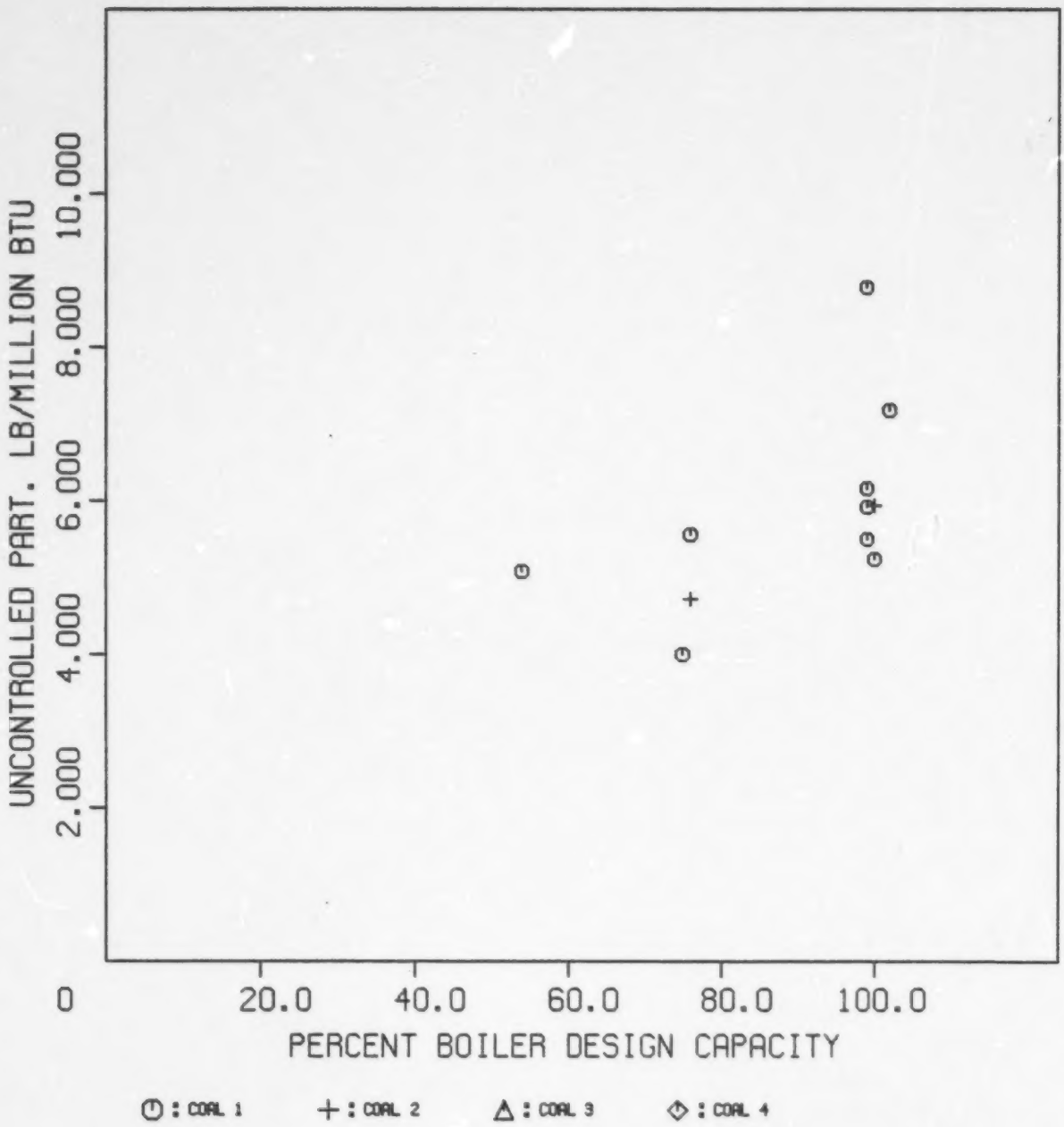


FIG. SITE F
UNCONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

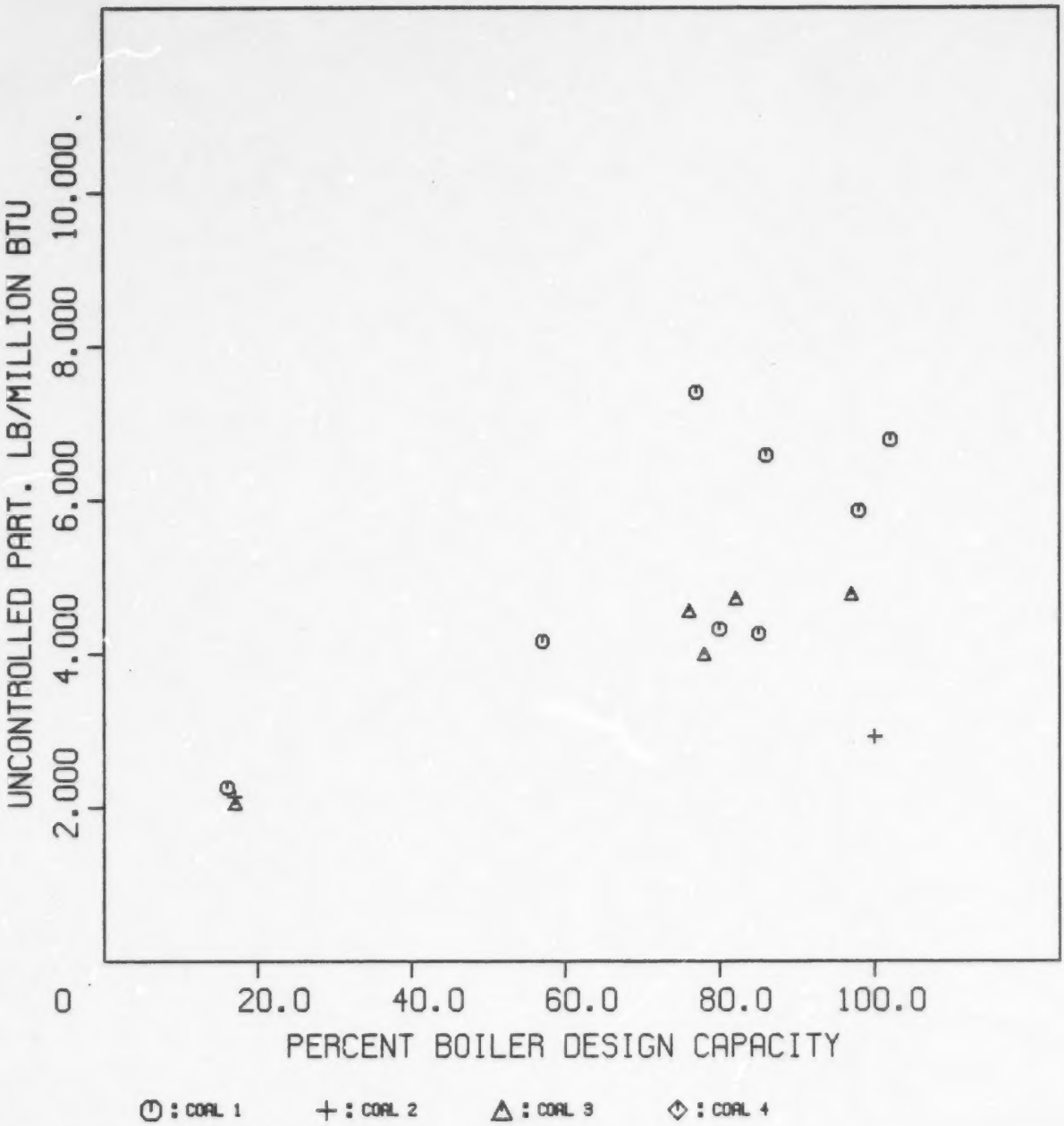


FIG. SITE G
UNCONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

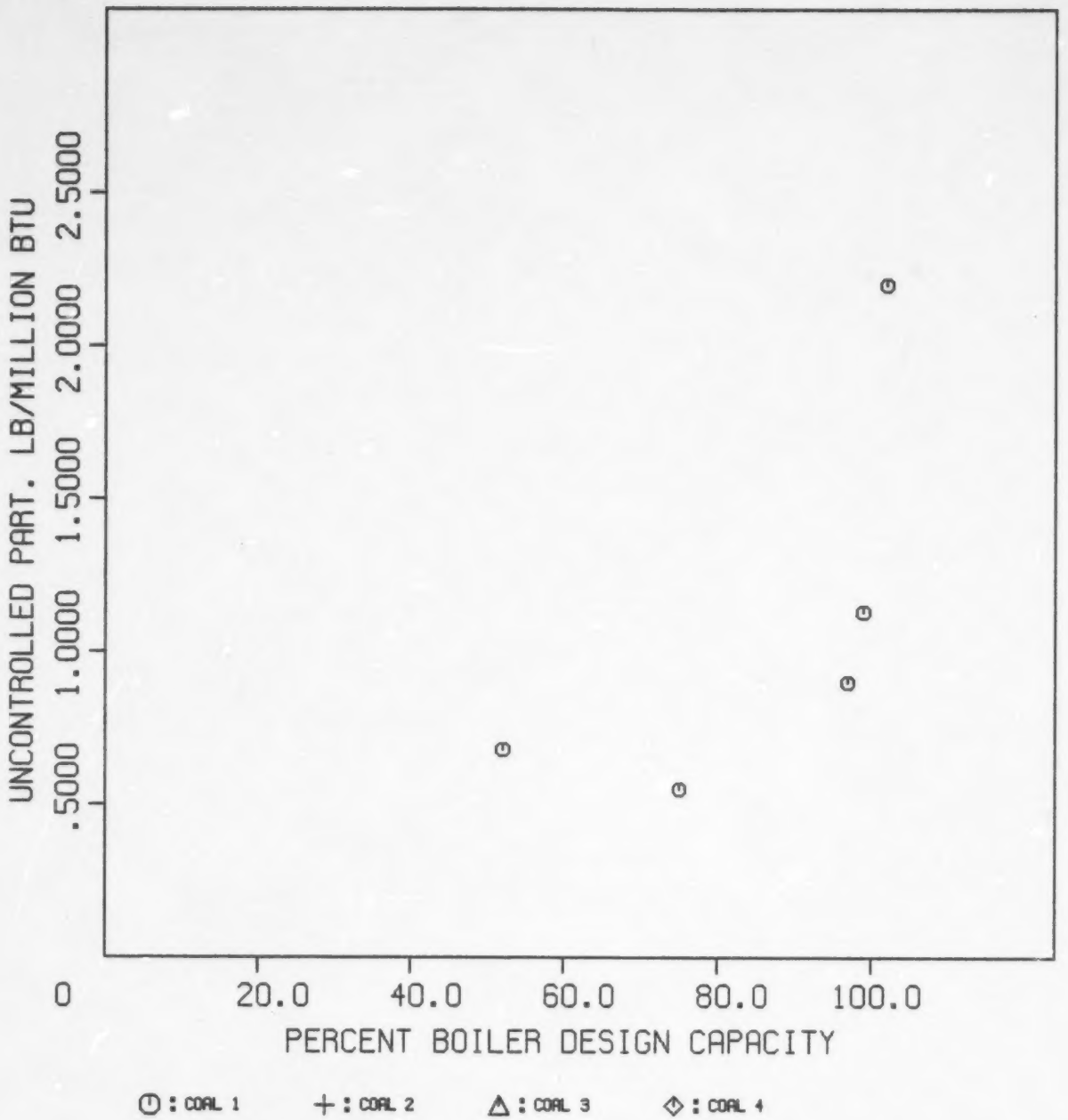


FIG. SITE H
UNCONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

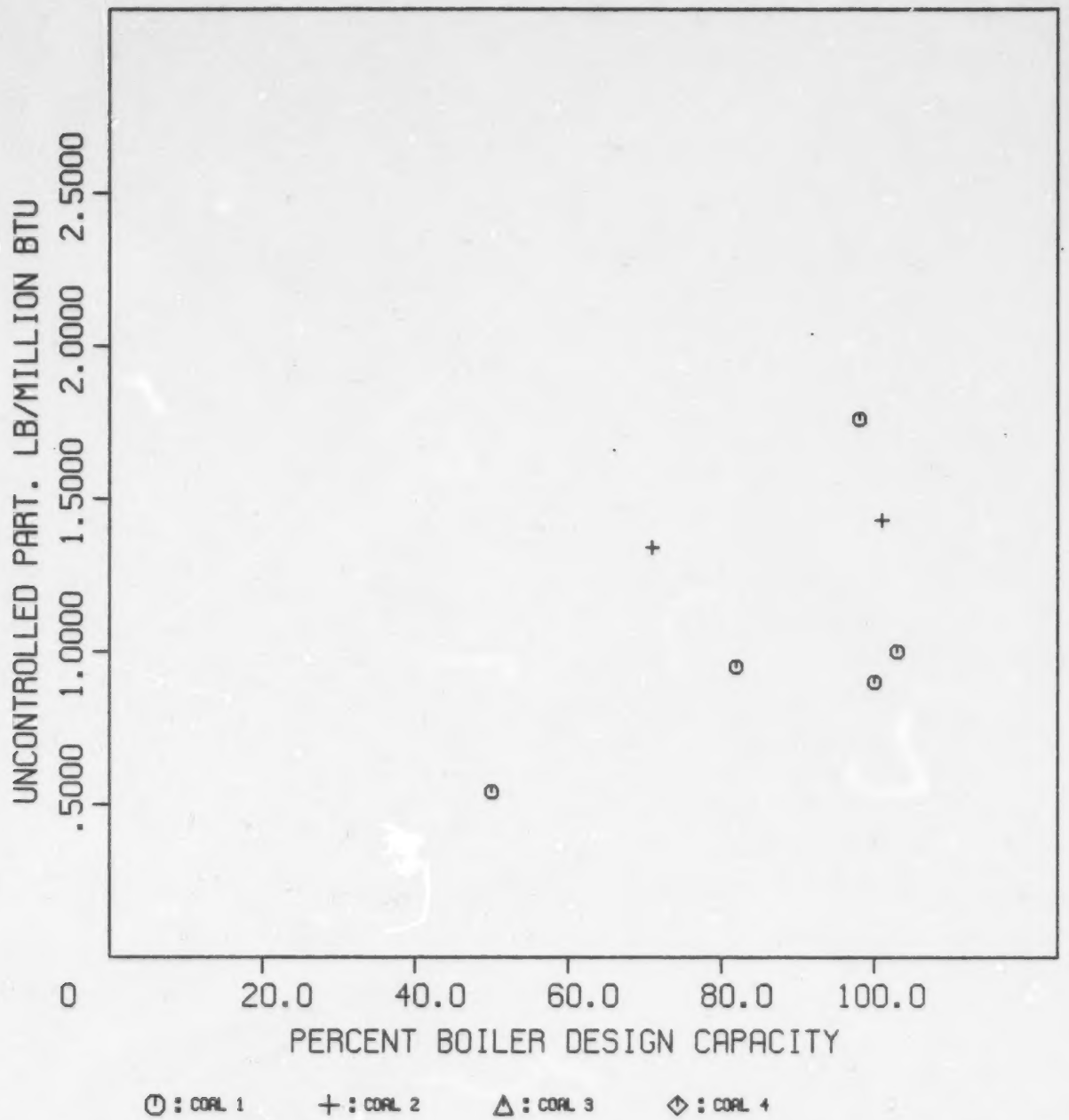


FIG. SITE I
UNCONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

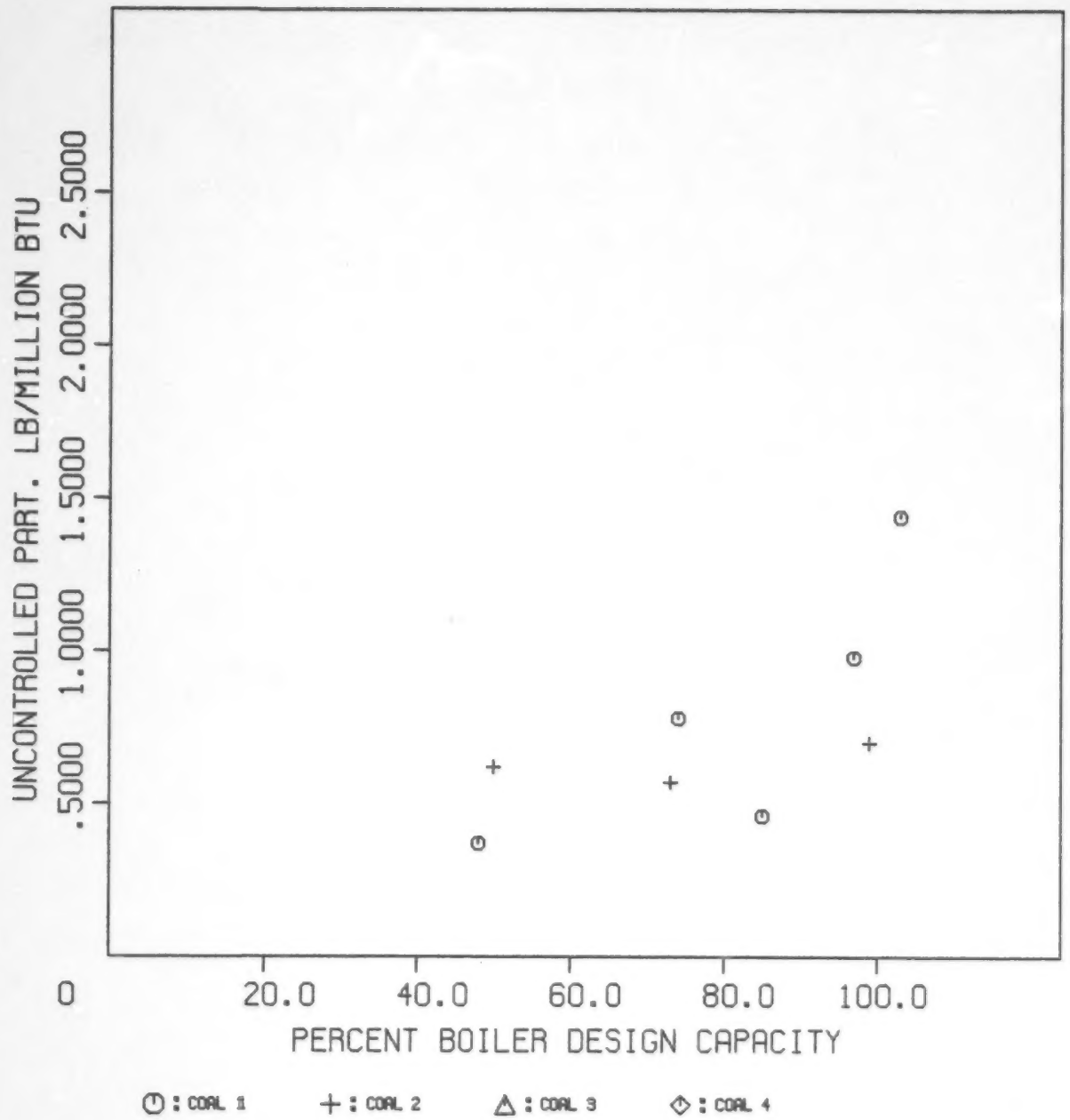


FIG. SITE J
UNCONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

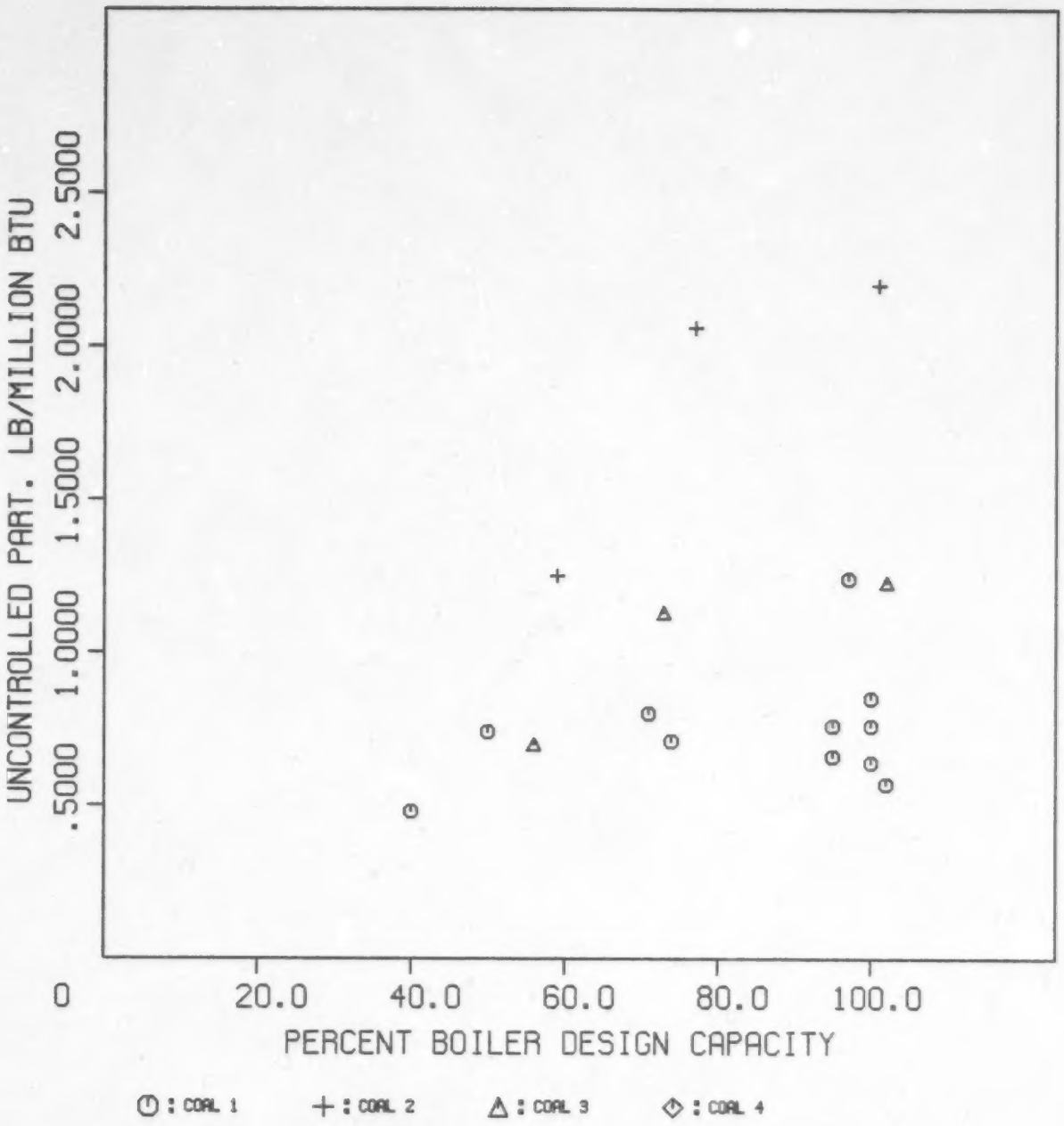


FIG. SITE K
UNCONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

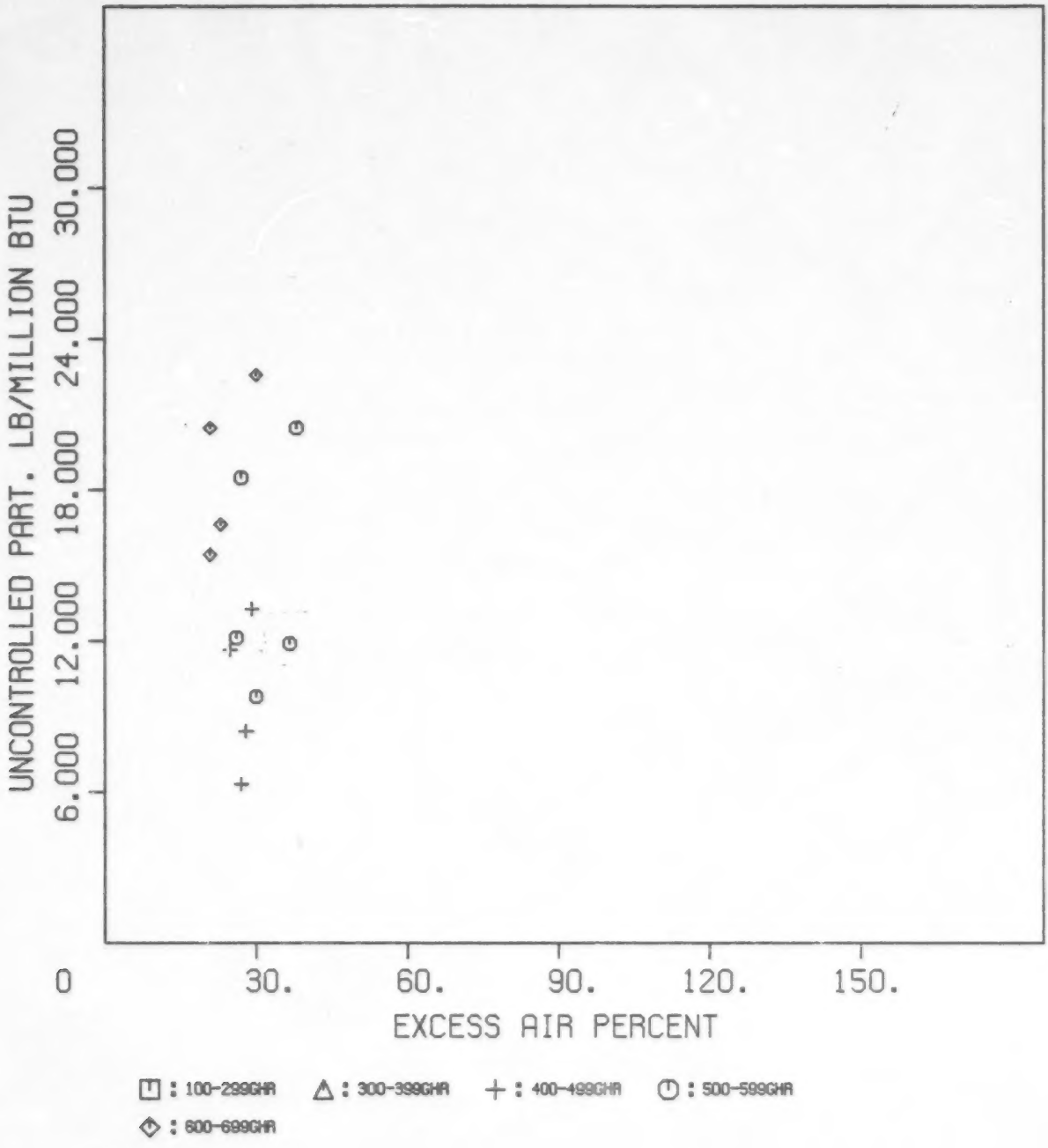


FIG. SITE A
UNCONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

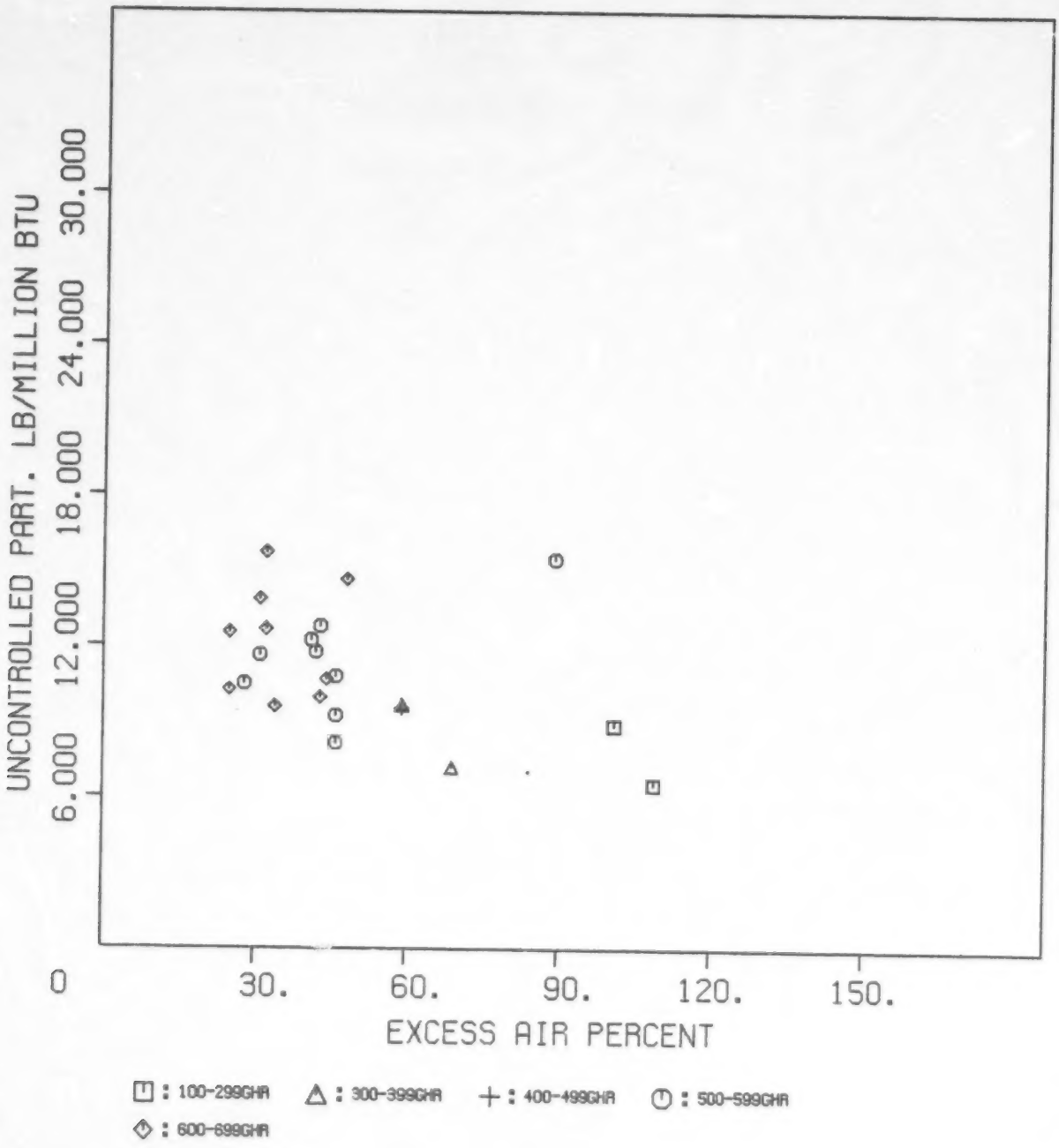


FIG. SITE B
UNCONTROLLED PART. VS. EXCESS AIR

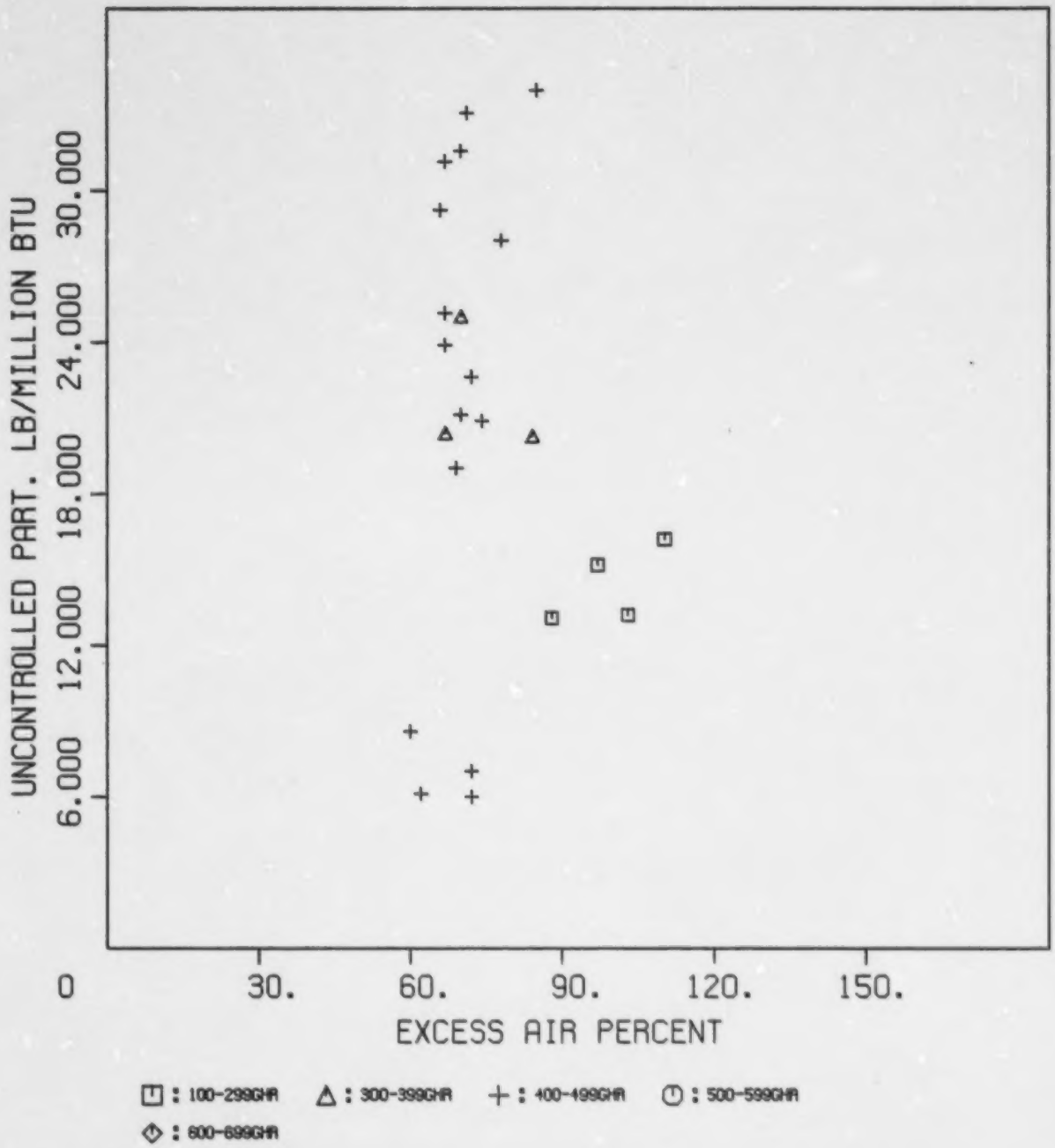


FIG. SITE C
UNCONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

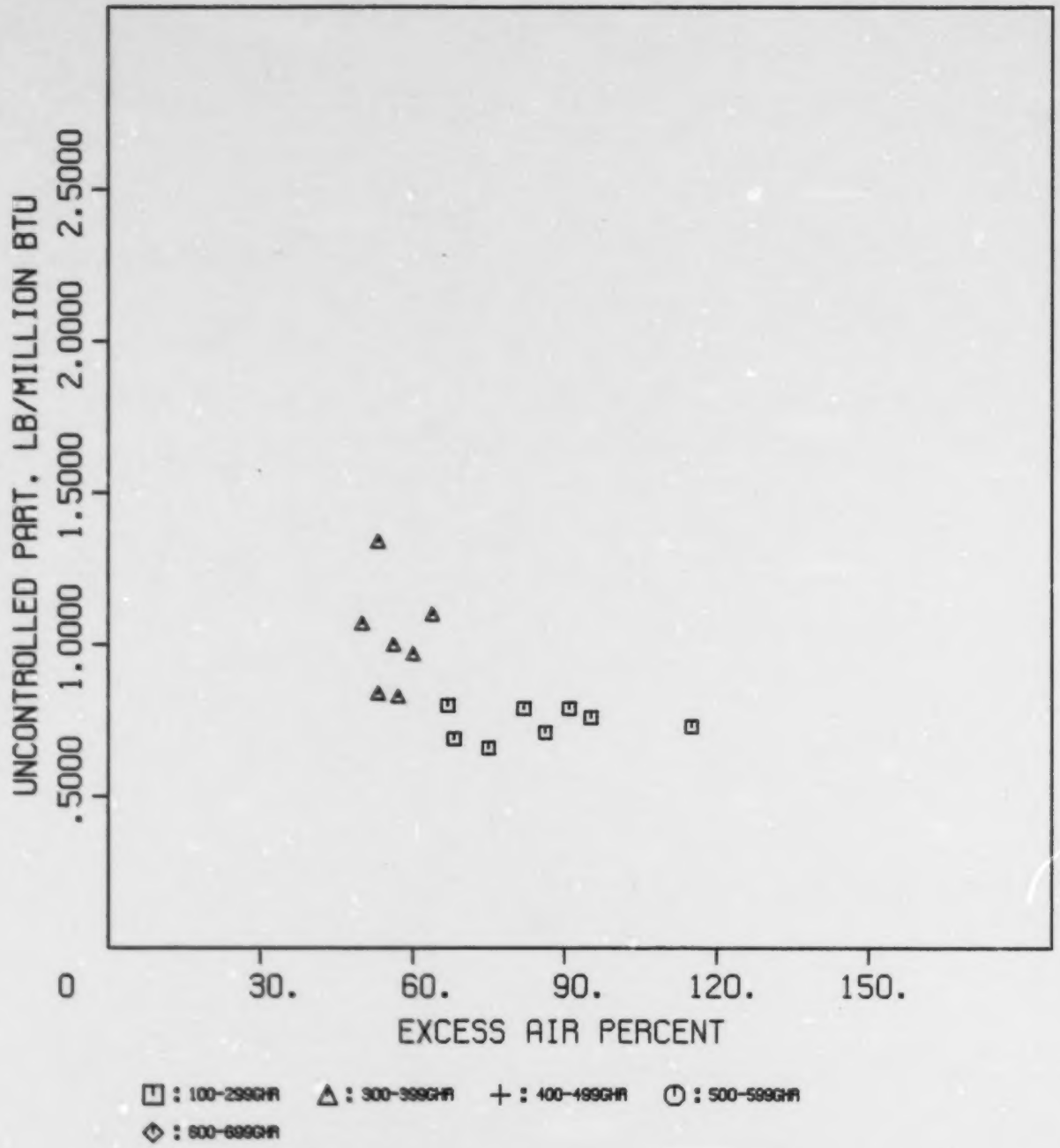


FIG. SITE D
UNCONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

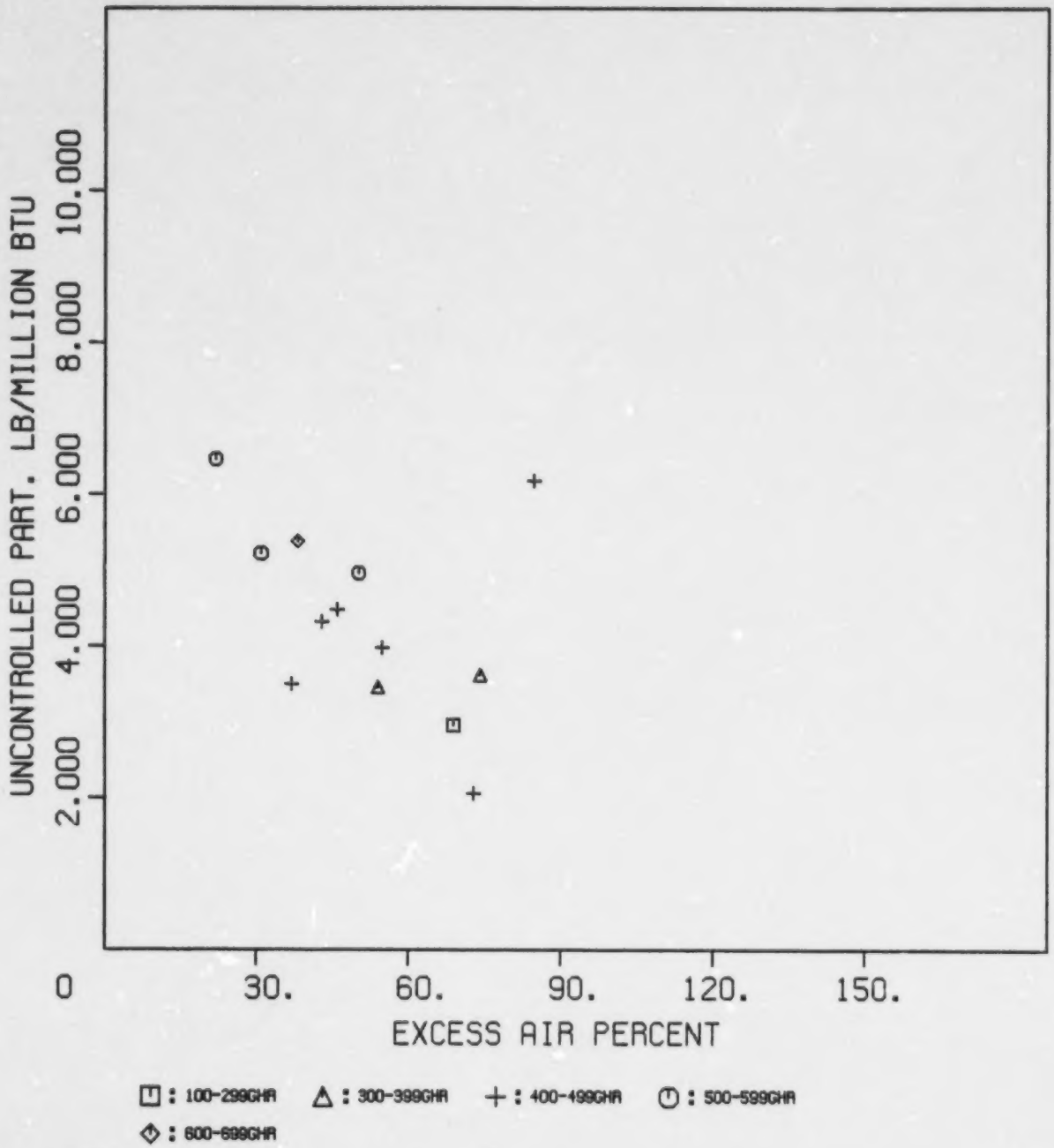


FIG. SITE E
UNCONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

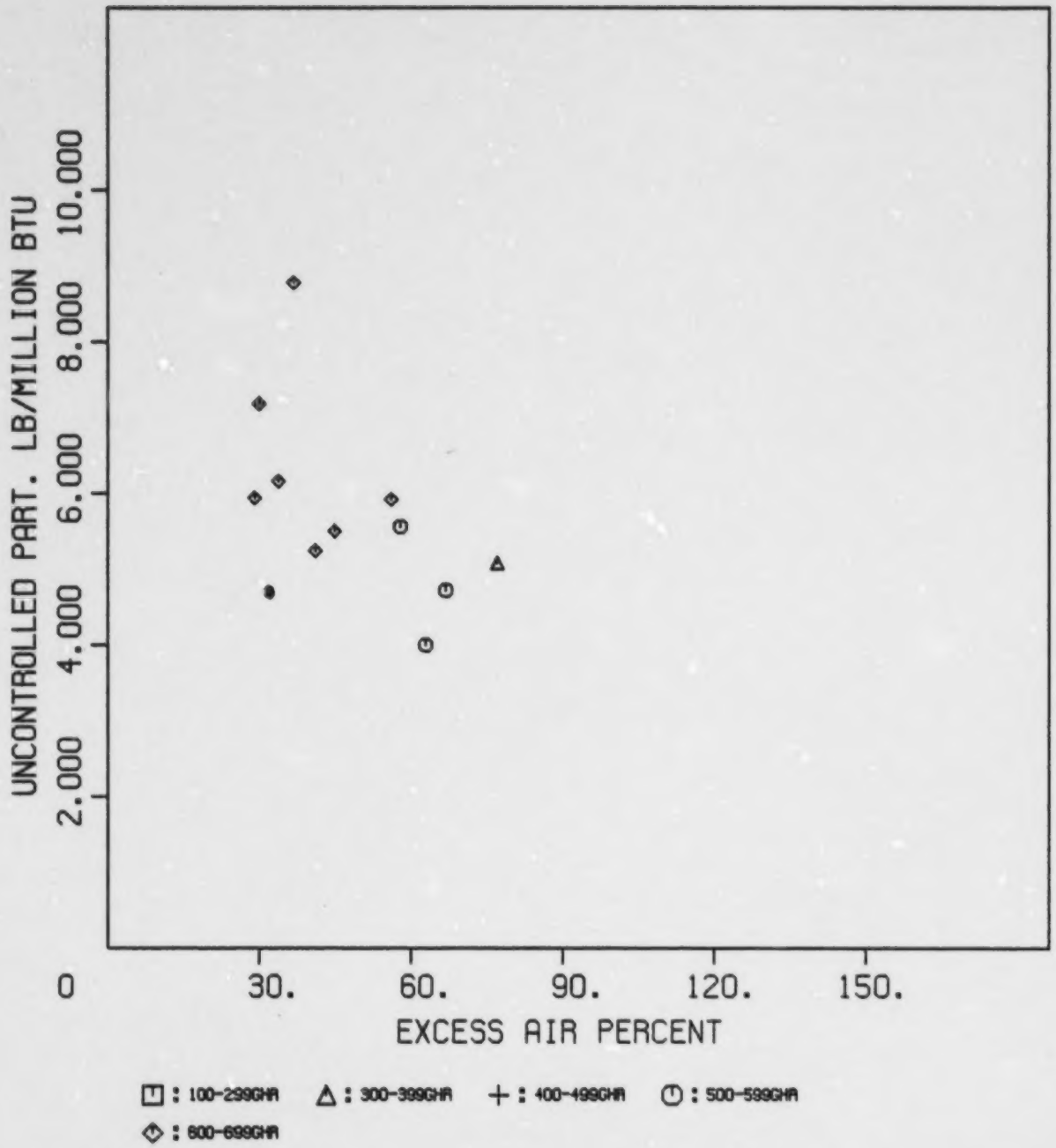


FIG. SITE F
UNCONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

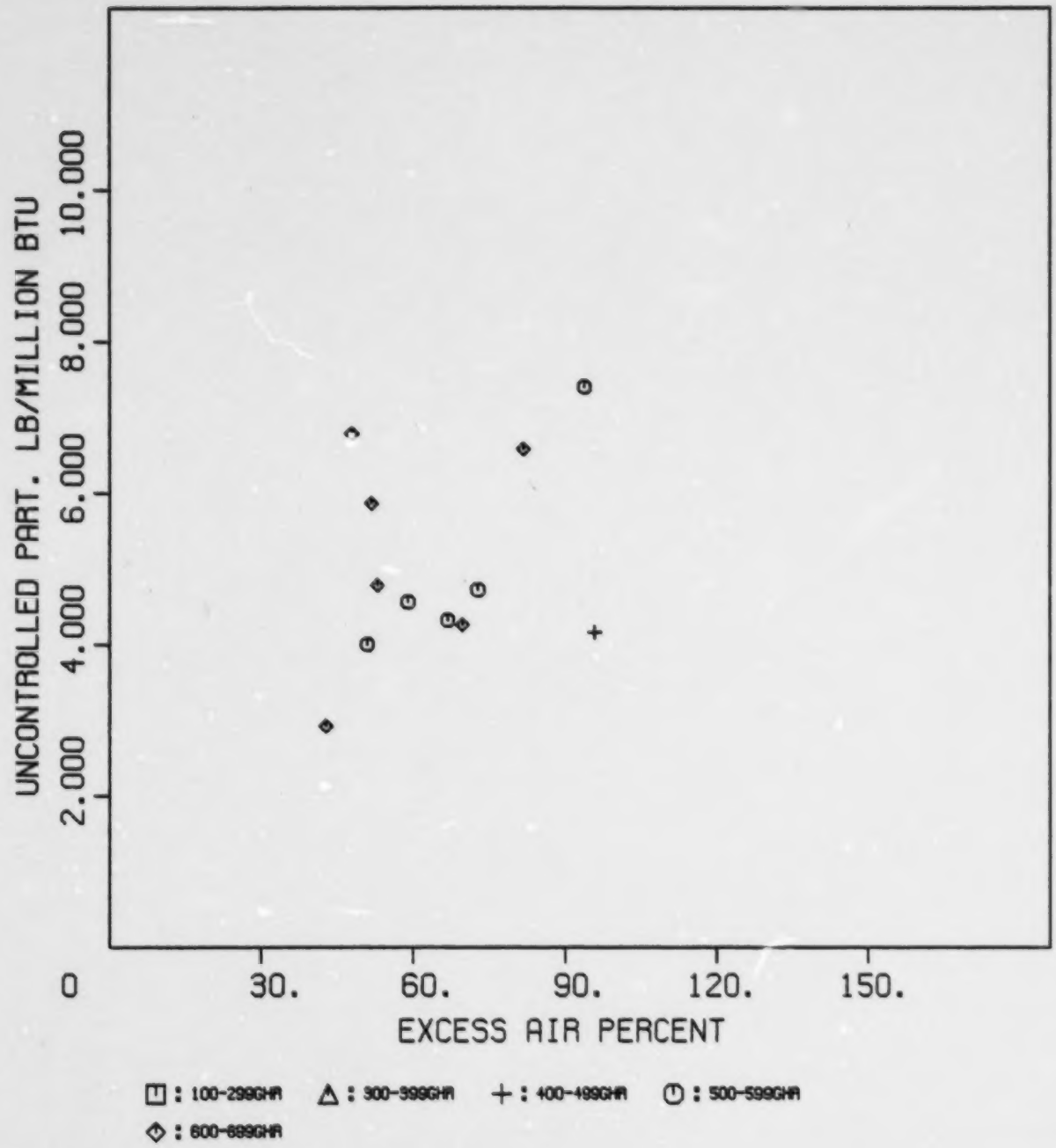


FIG. SITE G
UNCONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

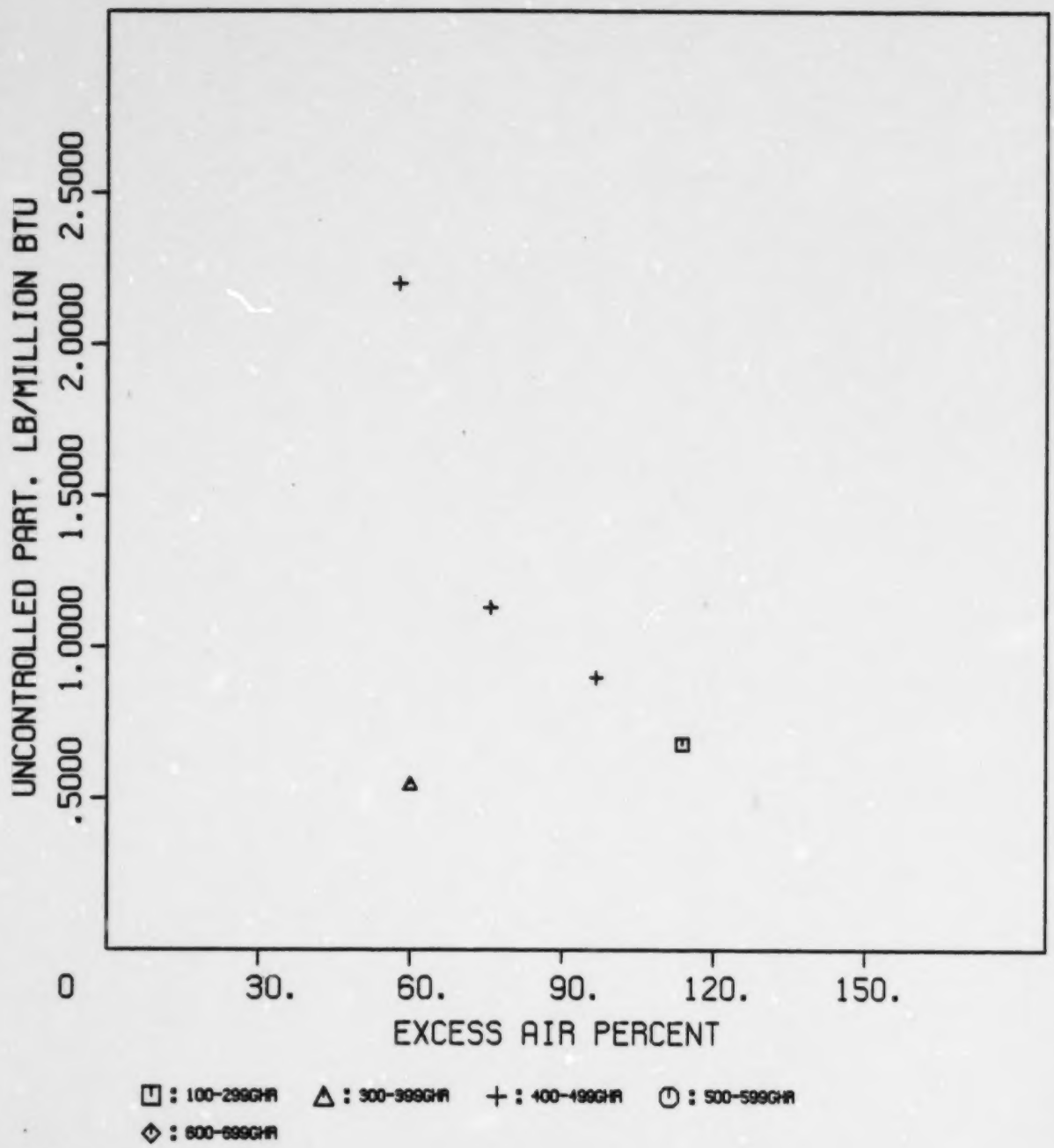


FIG. SITE H
UNCONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

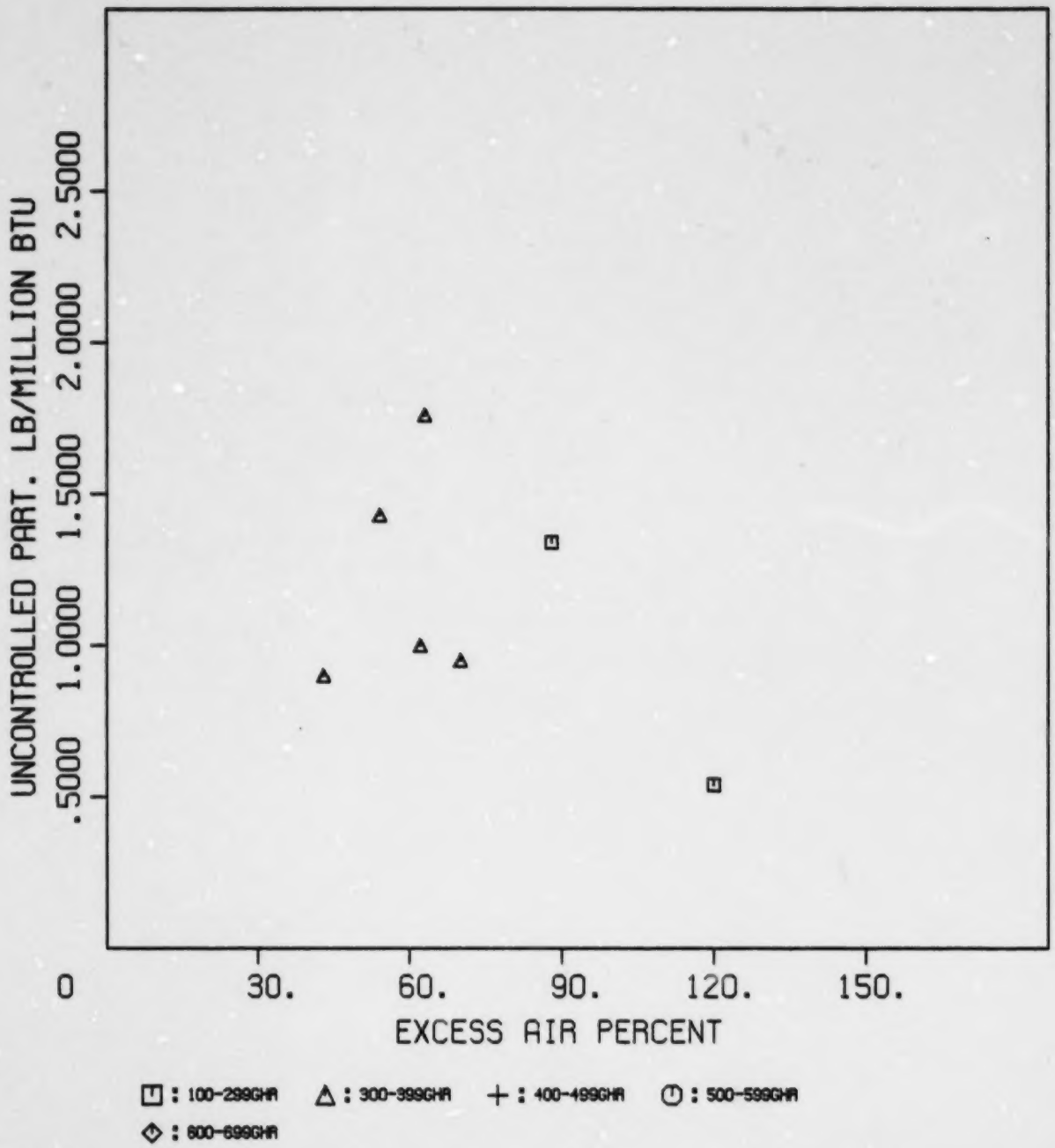


FIG. SITE I
UNCONTROLLED PART. VS. EXCESS AIR

KY84-15900-554

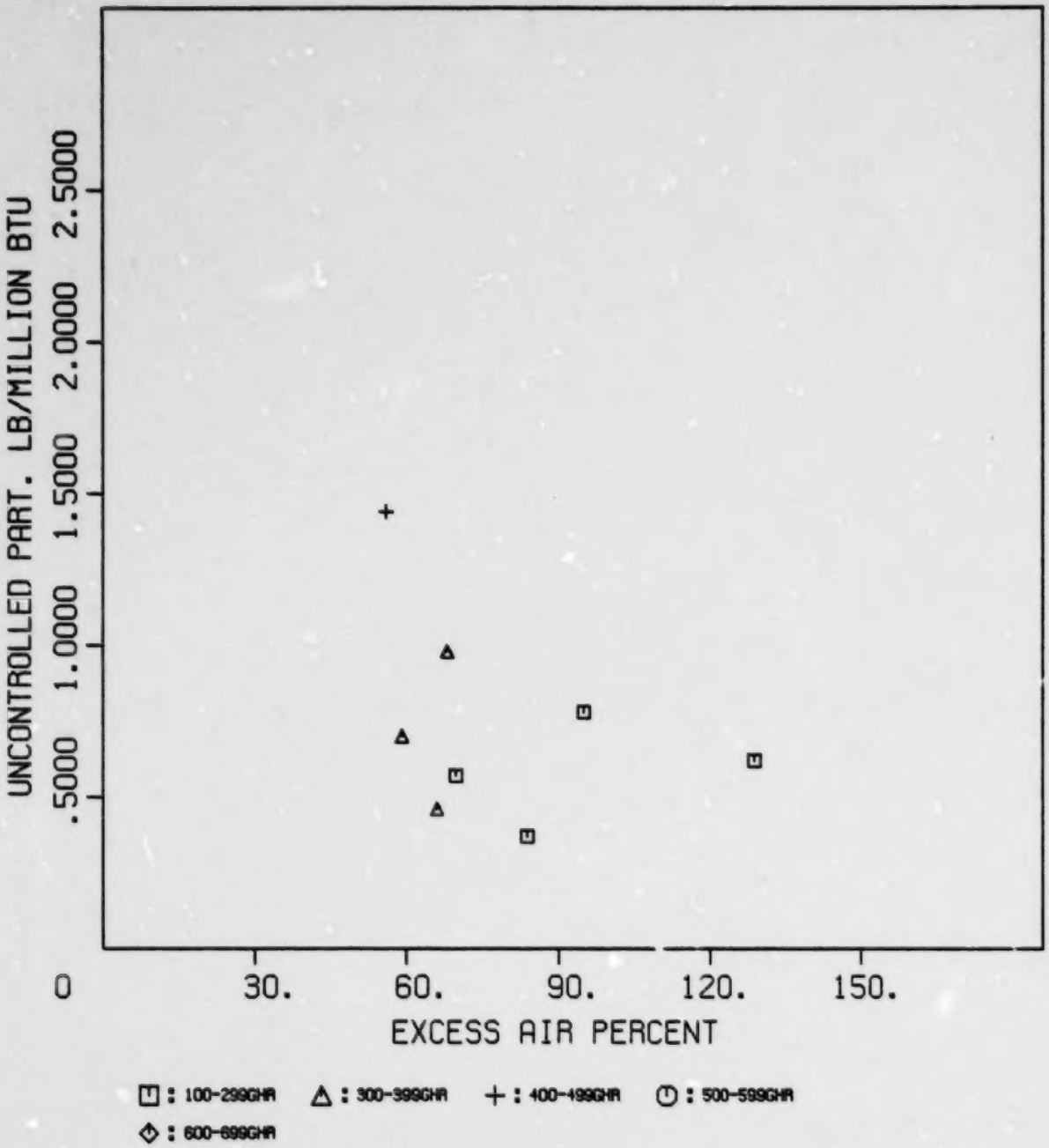


FIG. SITE J
UNCONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

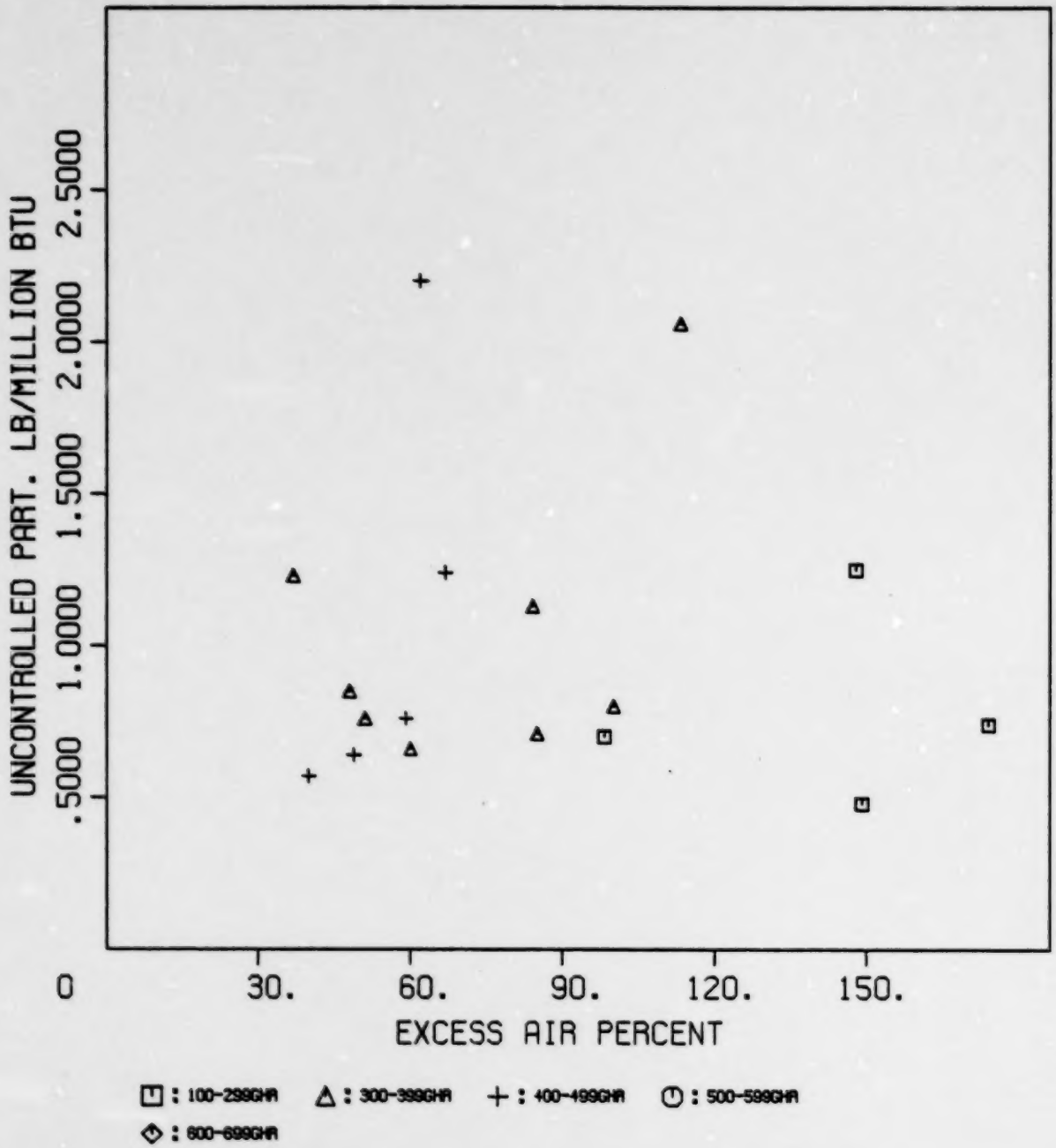


FIG. SITE K
UNCONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

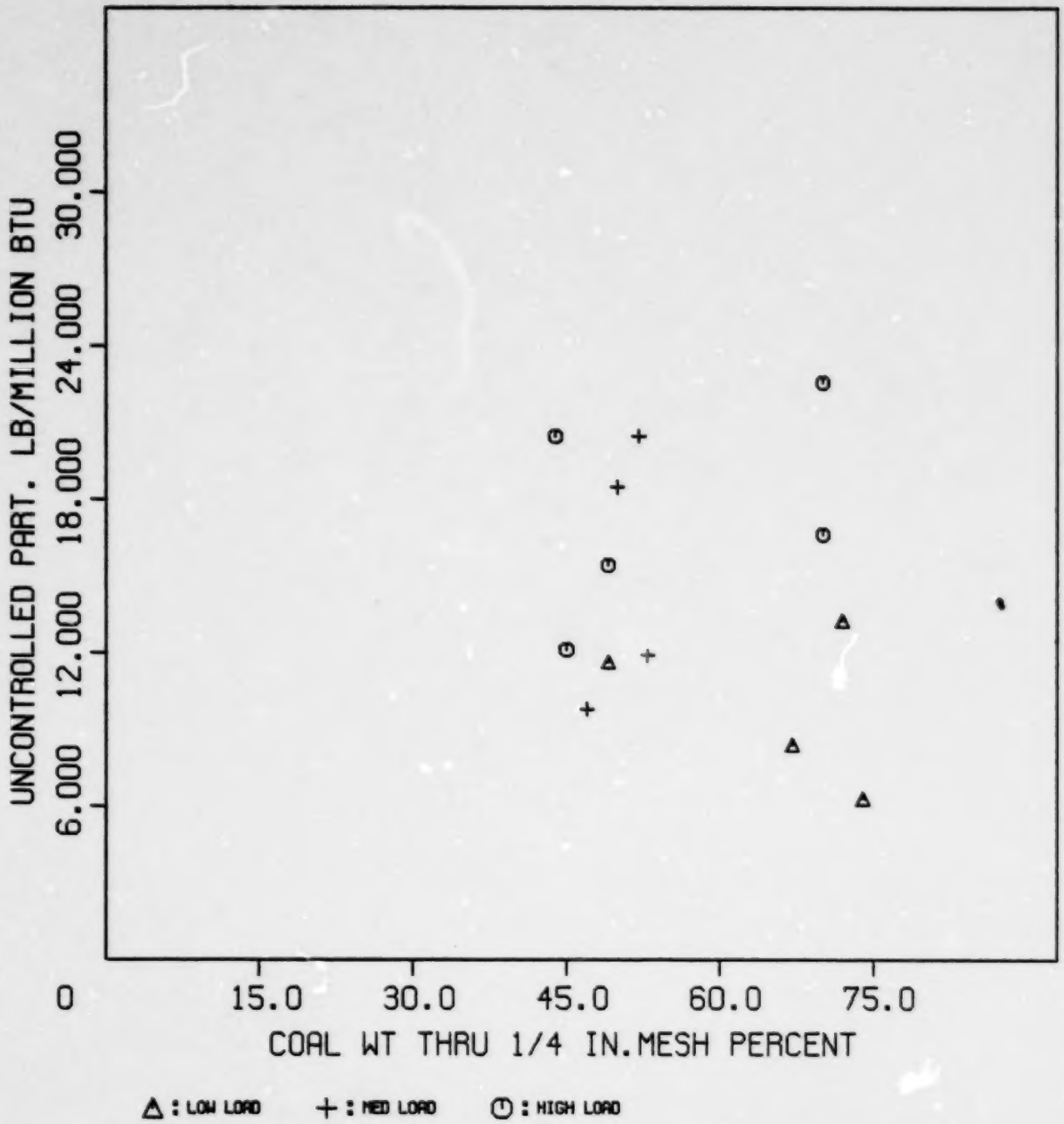


FIG. SITE A
UNCONTROLLED PART. VS. COAL WT THRU 1/4 IN.MESH

KVB4-15900-554

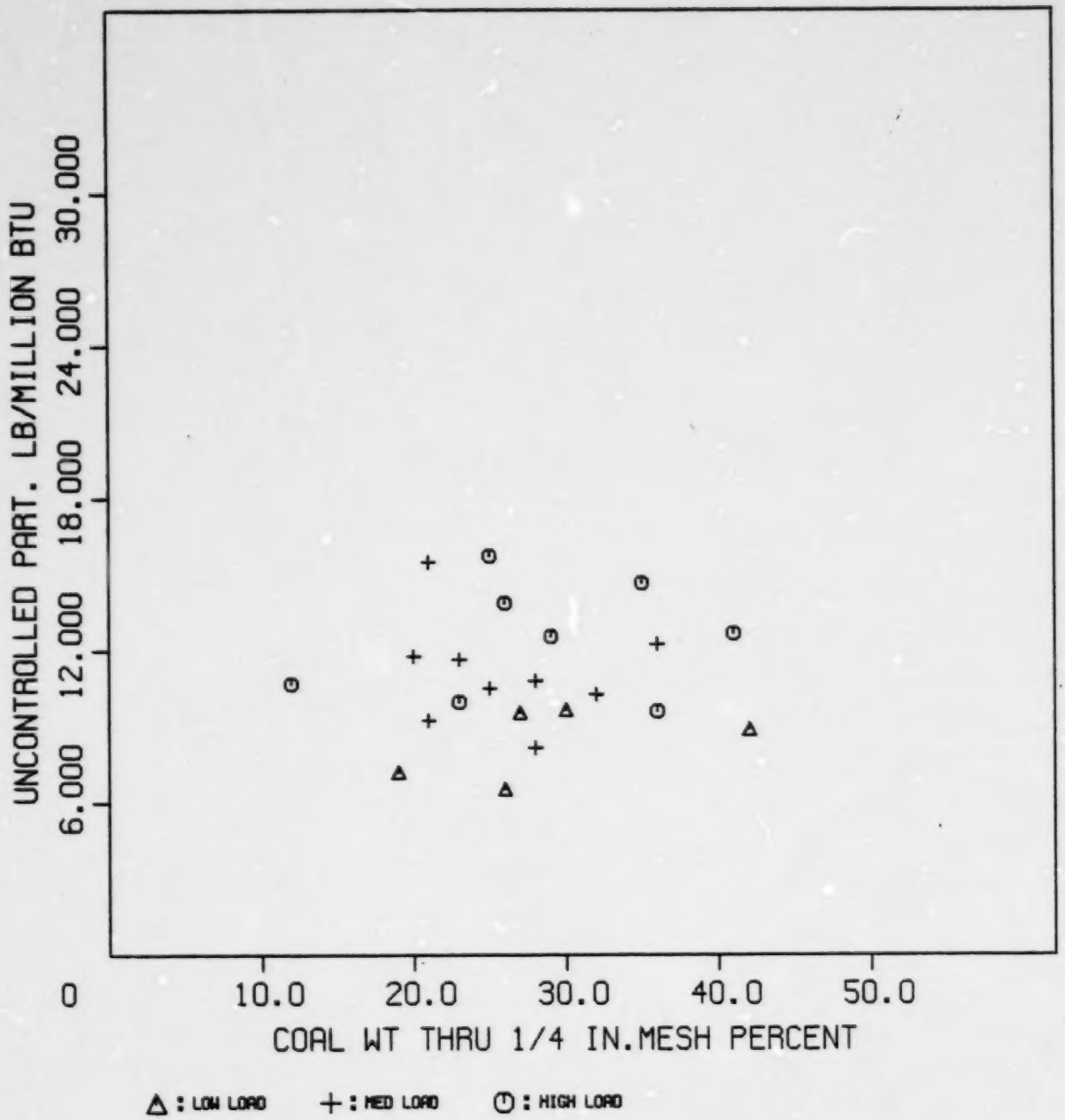


FIG. SITE B
UNCONTROLLED PART. VS. COAL WT THRU 1/4 IN.MESH

KYB4-15900-554

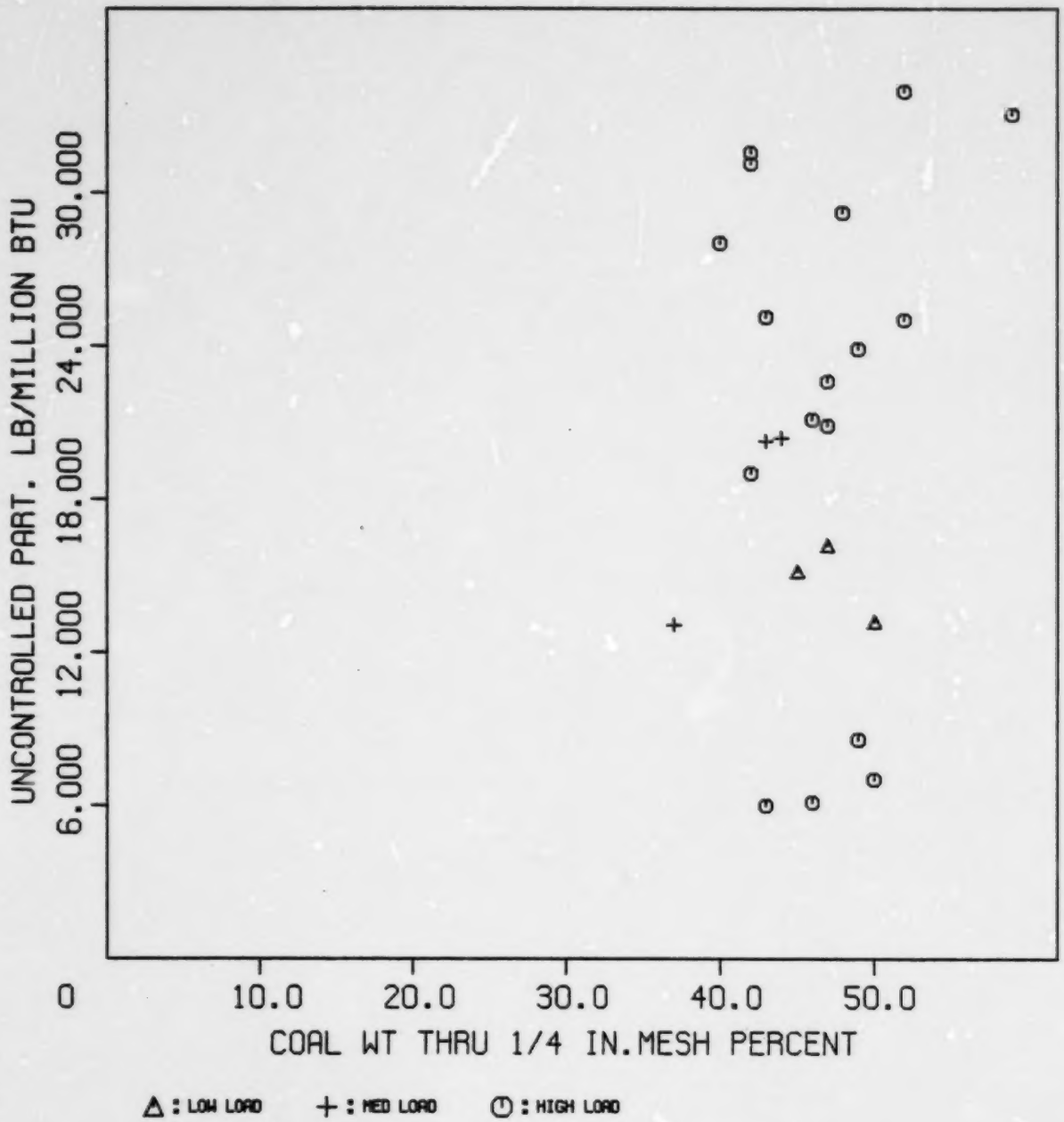


FIG. SITE C
UNCONTROLLED PART. VS. COAL WT THRU 1/4 IN.MESH

KY84-15900-554

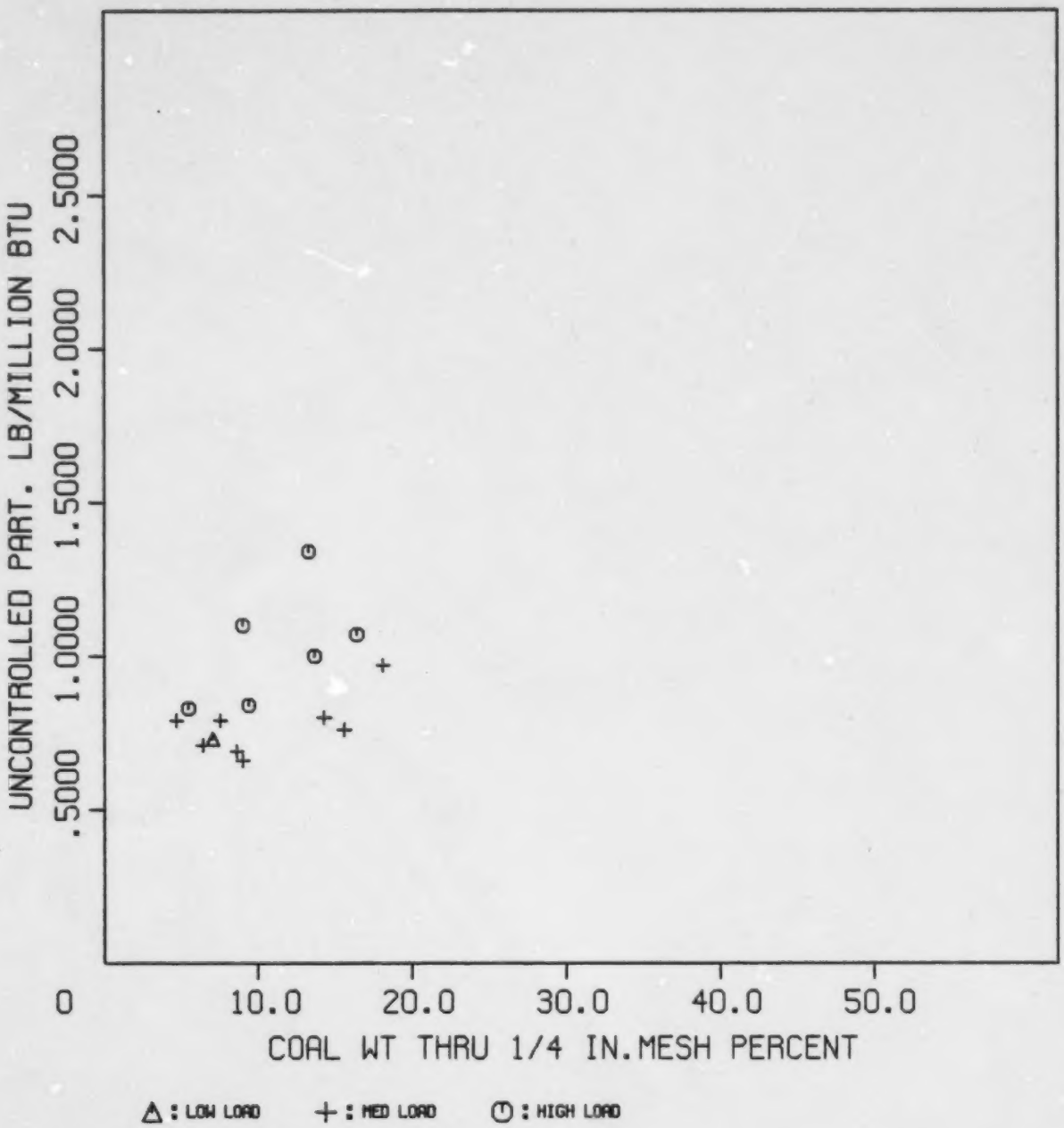


FIG. SITE D
UNCONTROLLED PART. VS. COAL WT THRU 1/4 IN.MESH

KVB4-15900-554

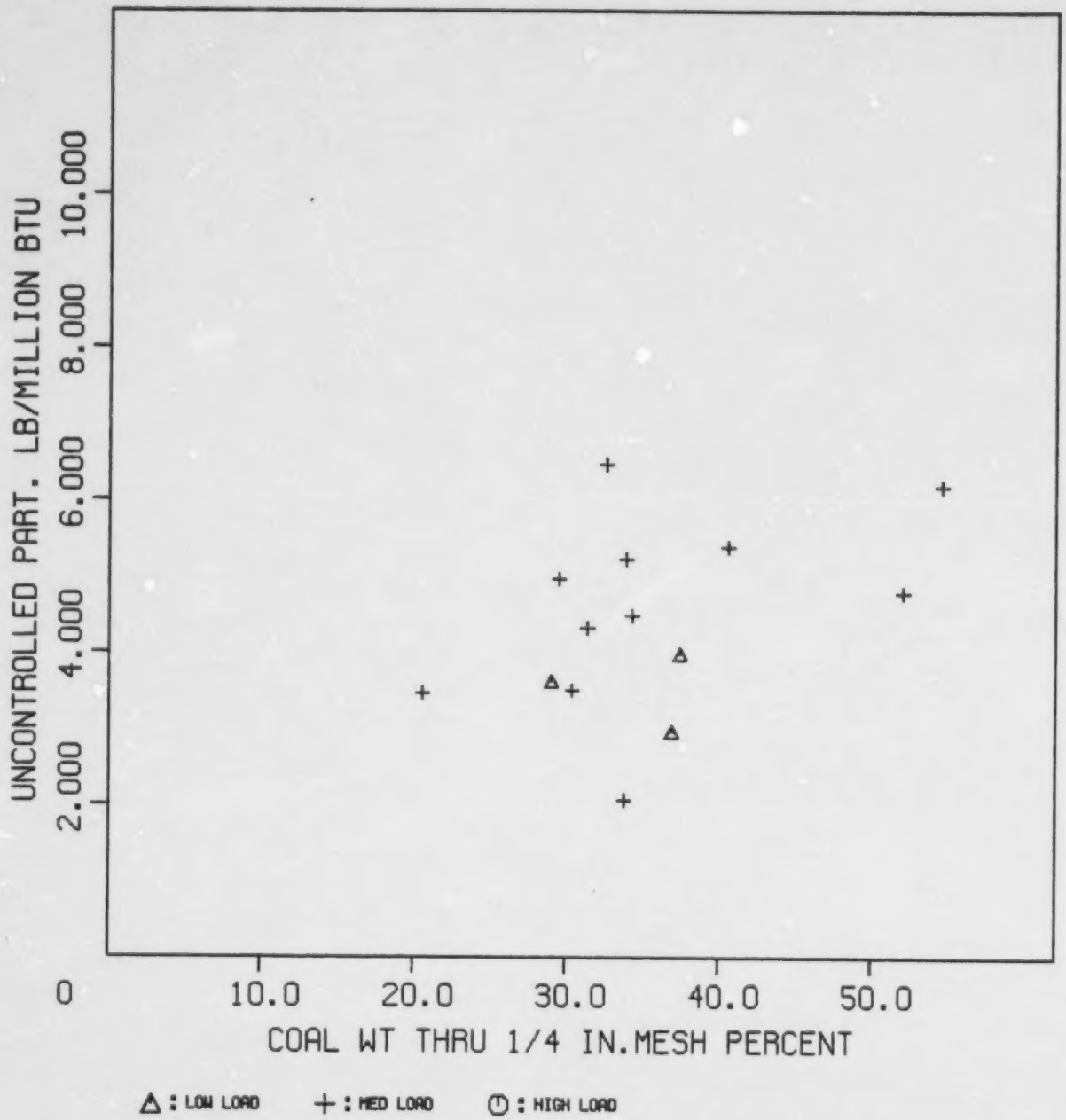


FIG. SITE E
UNCONTROLLED PART. VS. COAL WT THRU 1/4 IN.MESH

KVB4-15800-554

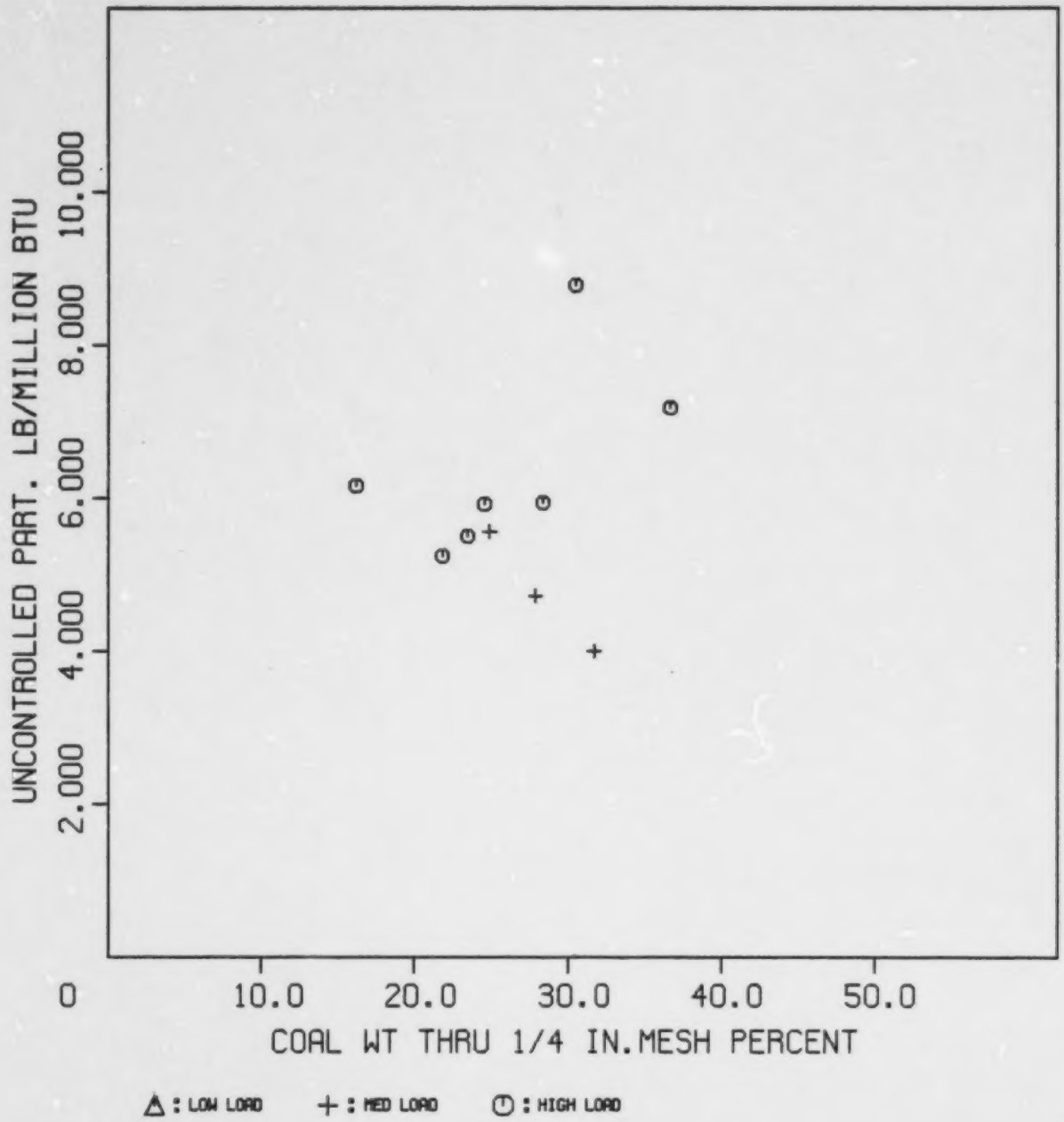


FIG. SITE F
UNCONTROLLED PART. VS. COAL WT THRU 1/4 IN.MESH

KVB4-15900-554

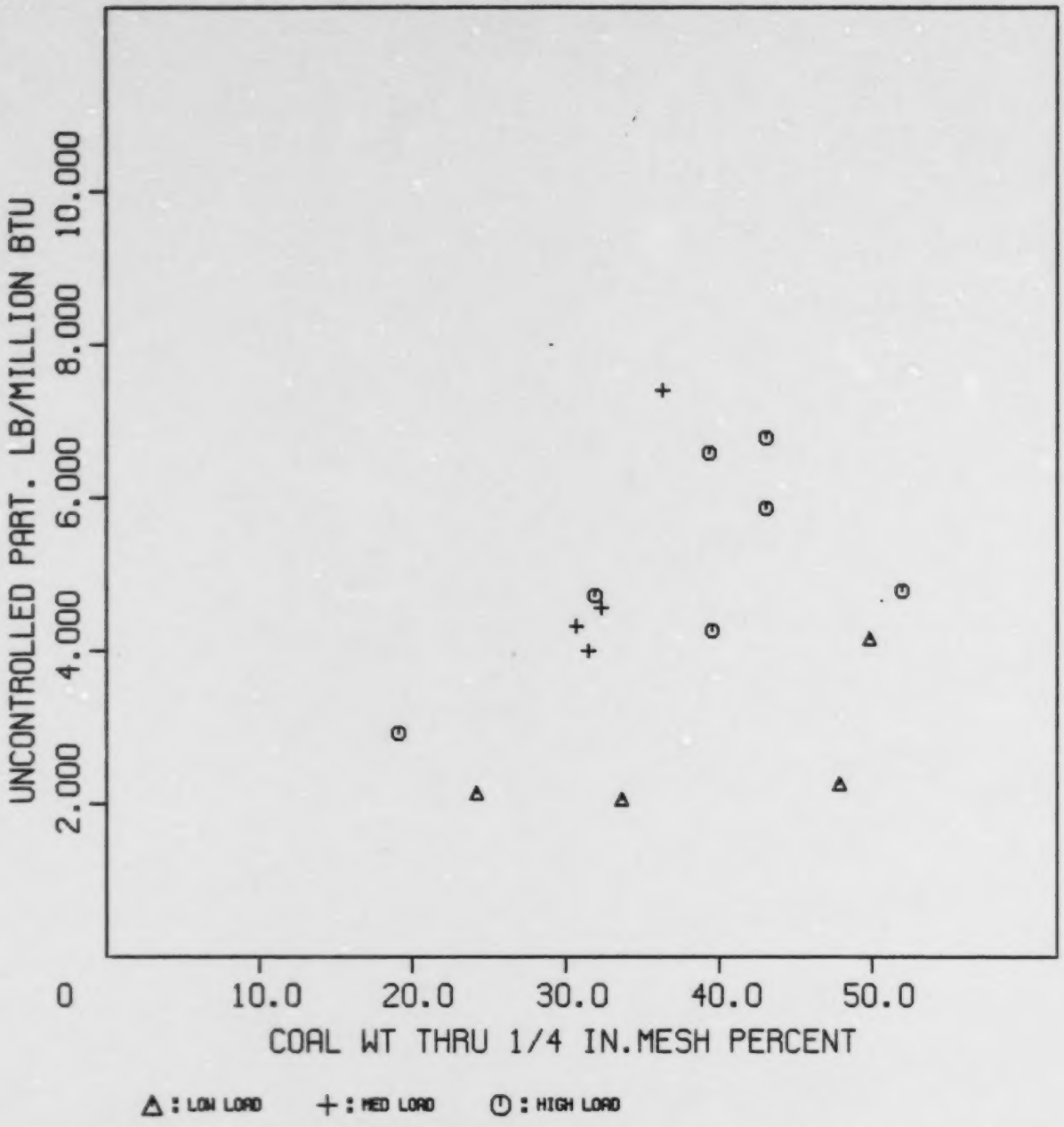


FIG. SITE G
UNCONTROLLED PART. VS. COAL WT THRU 1/4 IN.MESH

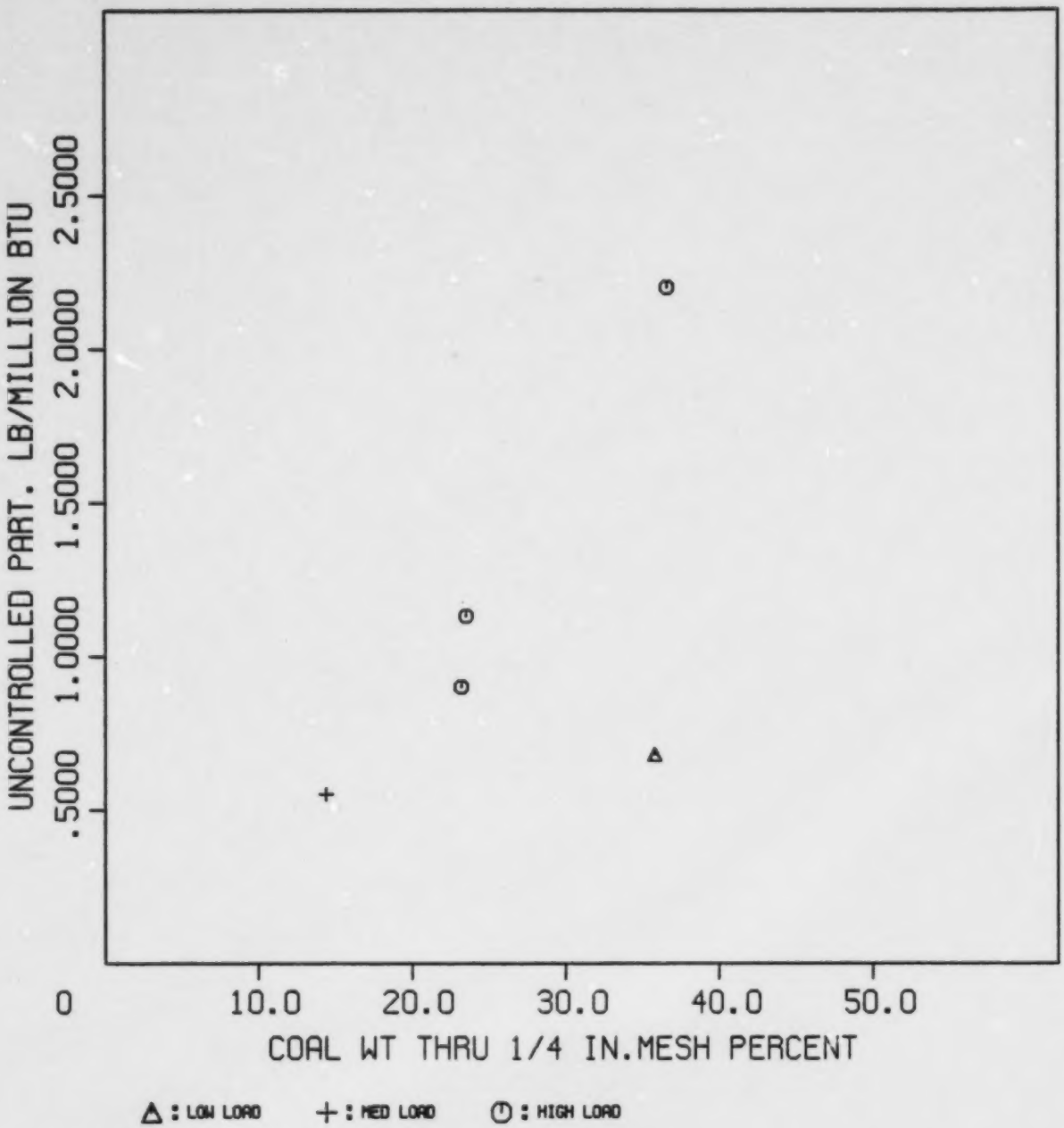


FIG. SITE H
UNCONTROLLED PART. VS. COAL WT THRU 1/4 IN.MESH

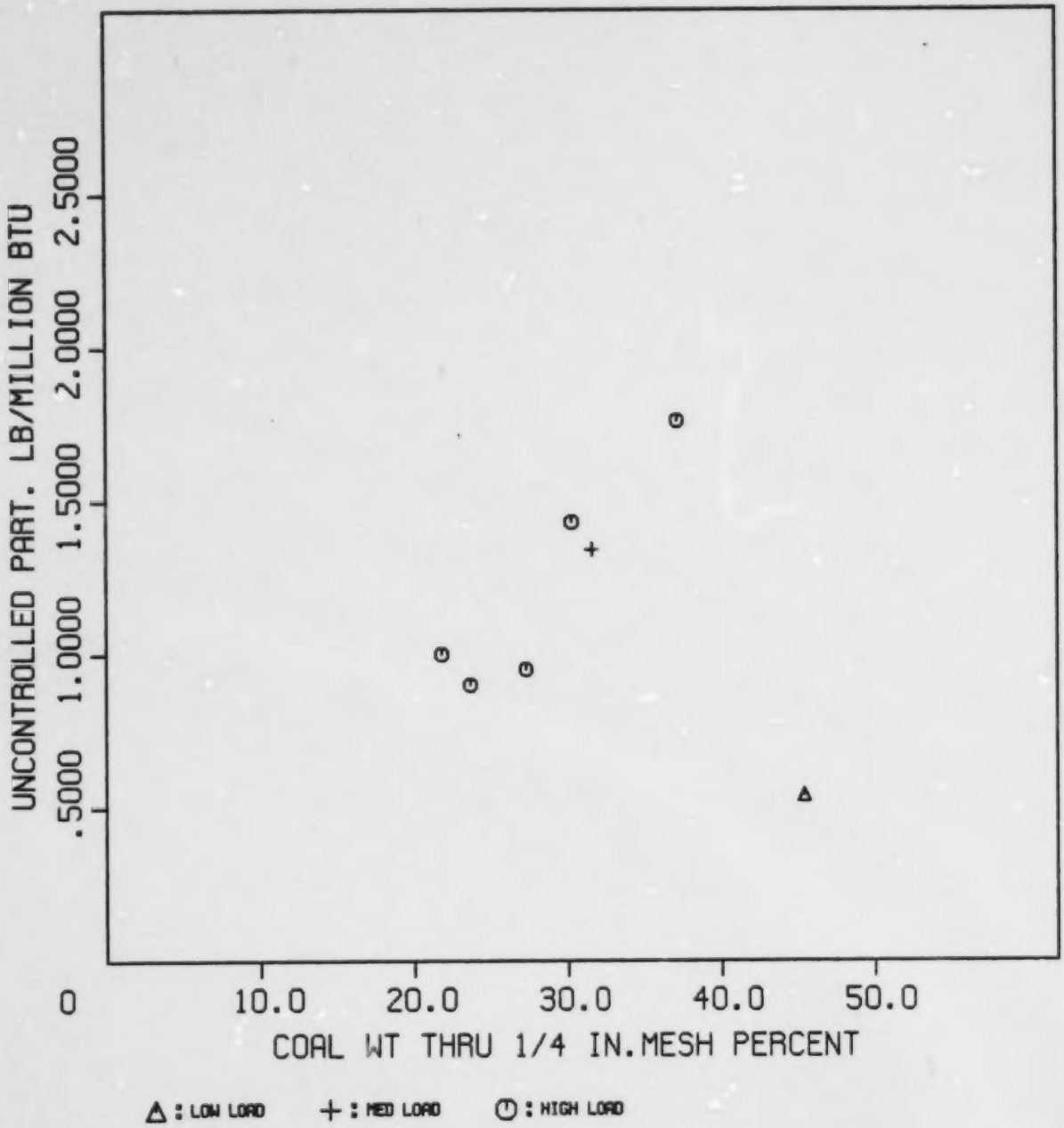


FIG. SITE I
UNCONTROLLED PART. VS. COAL WT THRU 1/4 IN.MESH

KVB4-15800-554

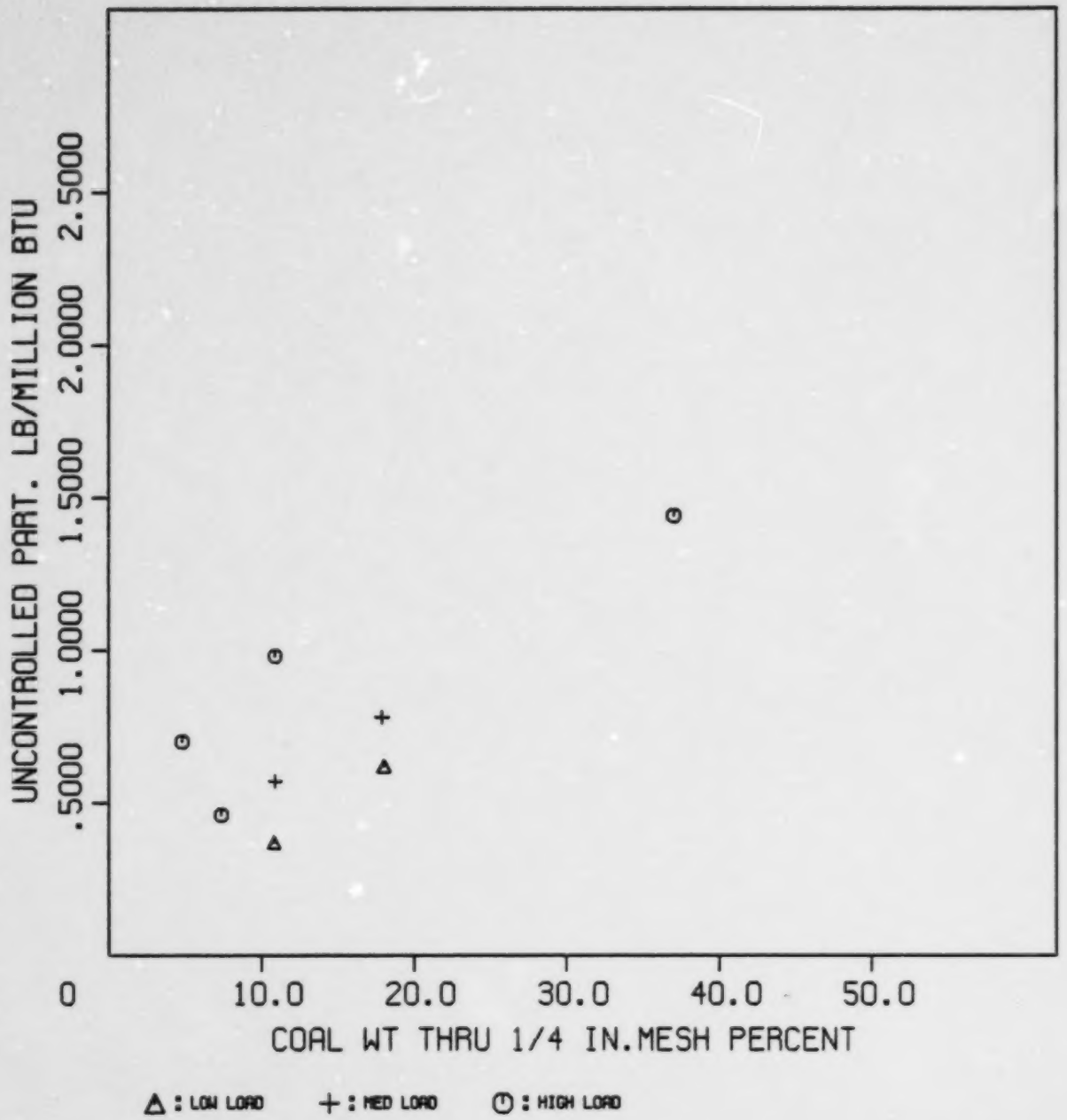


FIG. SITE J
UNCONTROLLED PART. VS. COAL WT THRU 1/4 IN.MESH

KVB4-15900-554

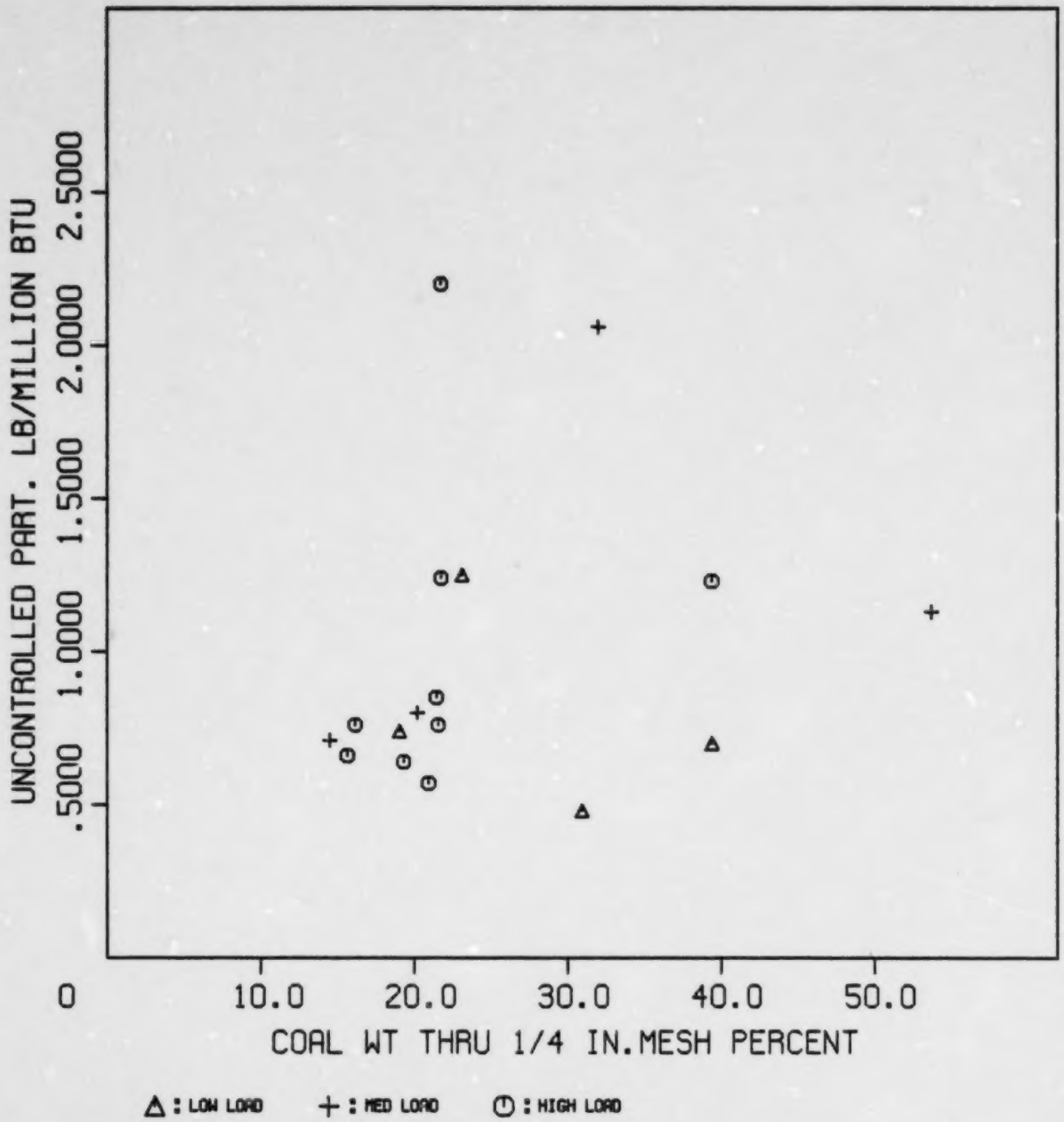


FIG. SITE K
UNCONTROLLED PART. VS. COAL WT THRU 1/4 IN.MESH

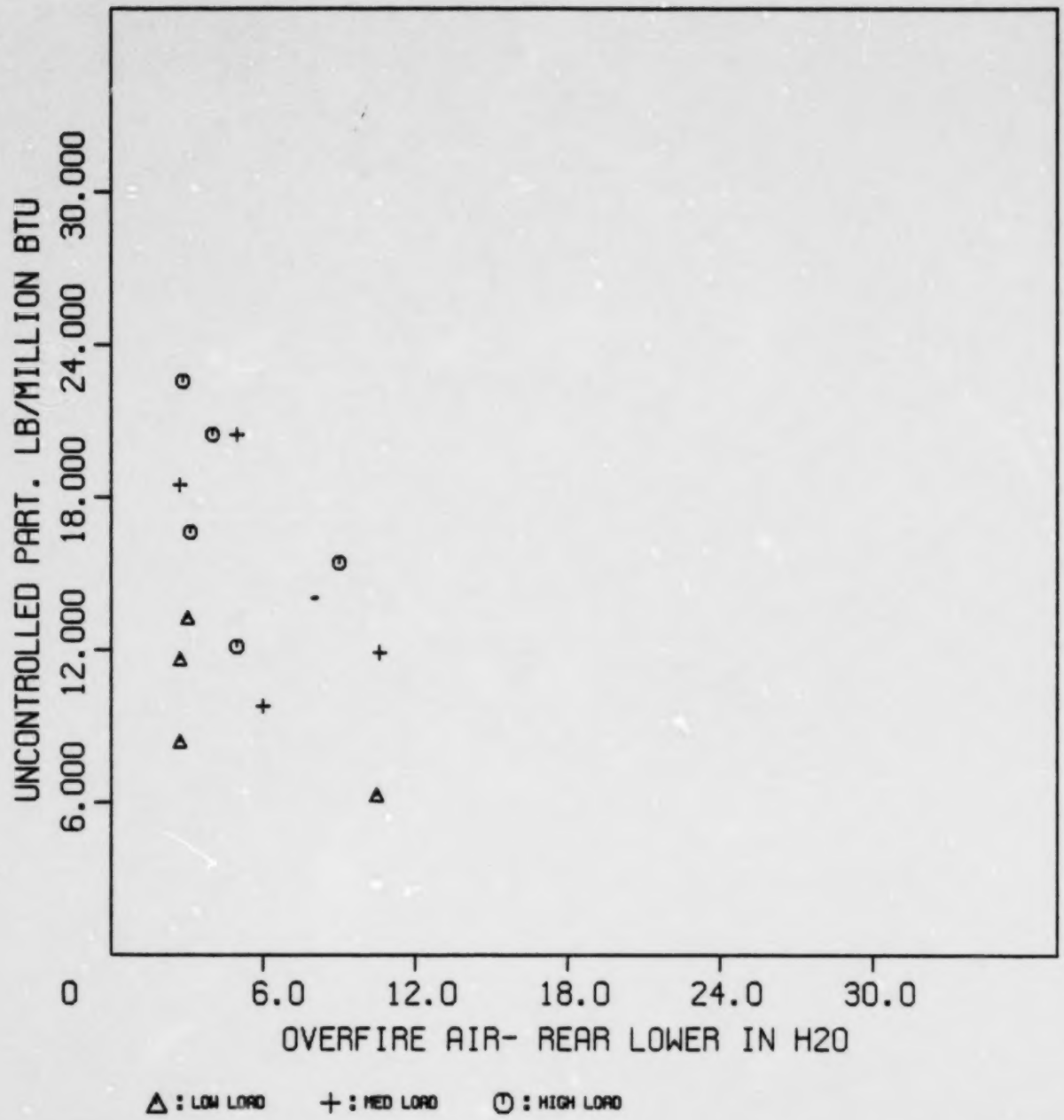


FIG. SITE A
UNCONTROLLED PART. VS. OVERFIRE AIR- REAR LOWER

KVB4-15900-554

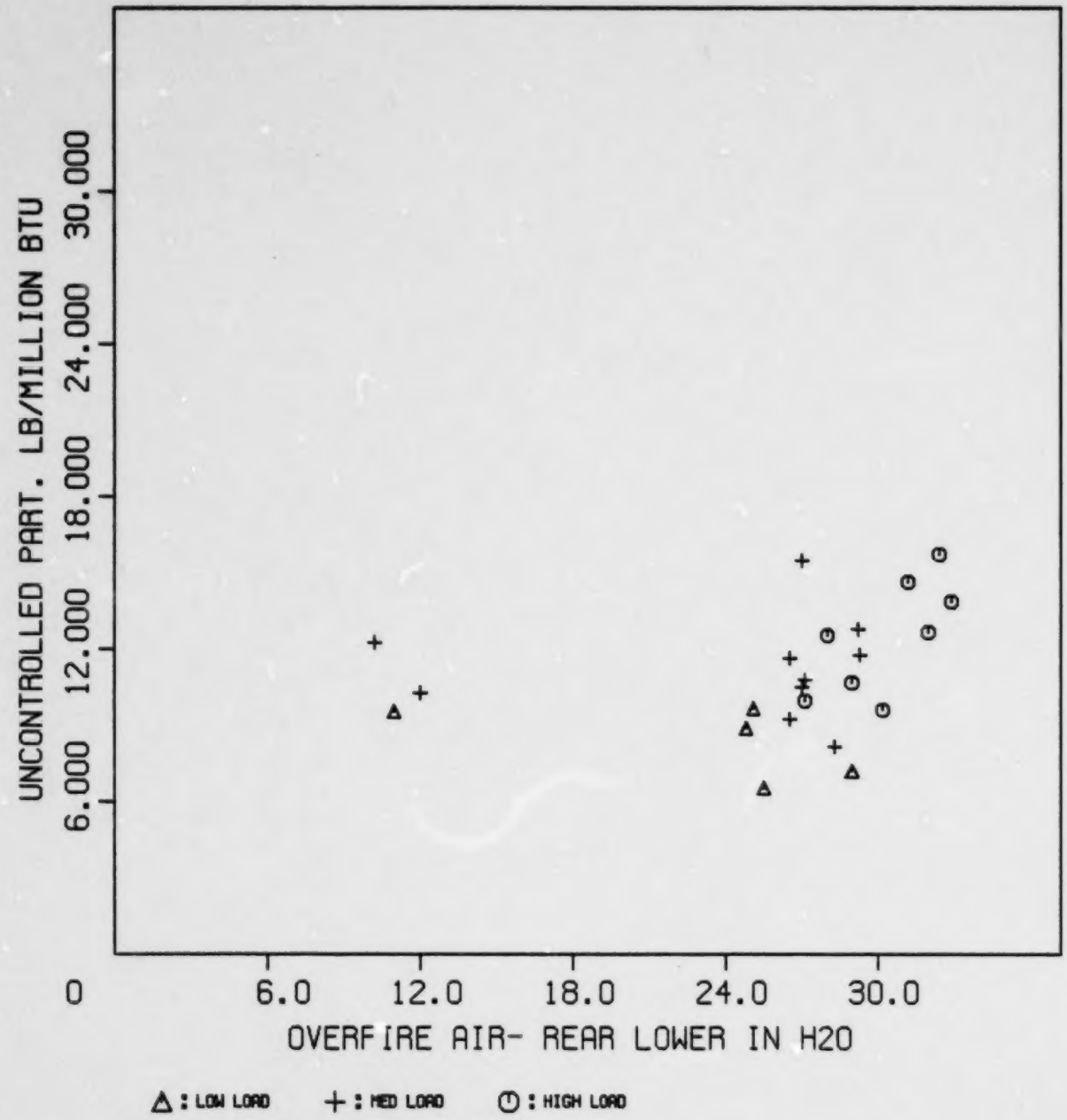


FIG. SITE B
UNCONTROLLED PART. VS. OVERFIRE AIR- REAR LOWER

KVB4-15900-554

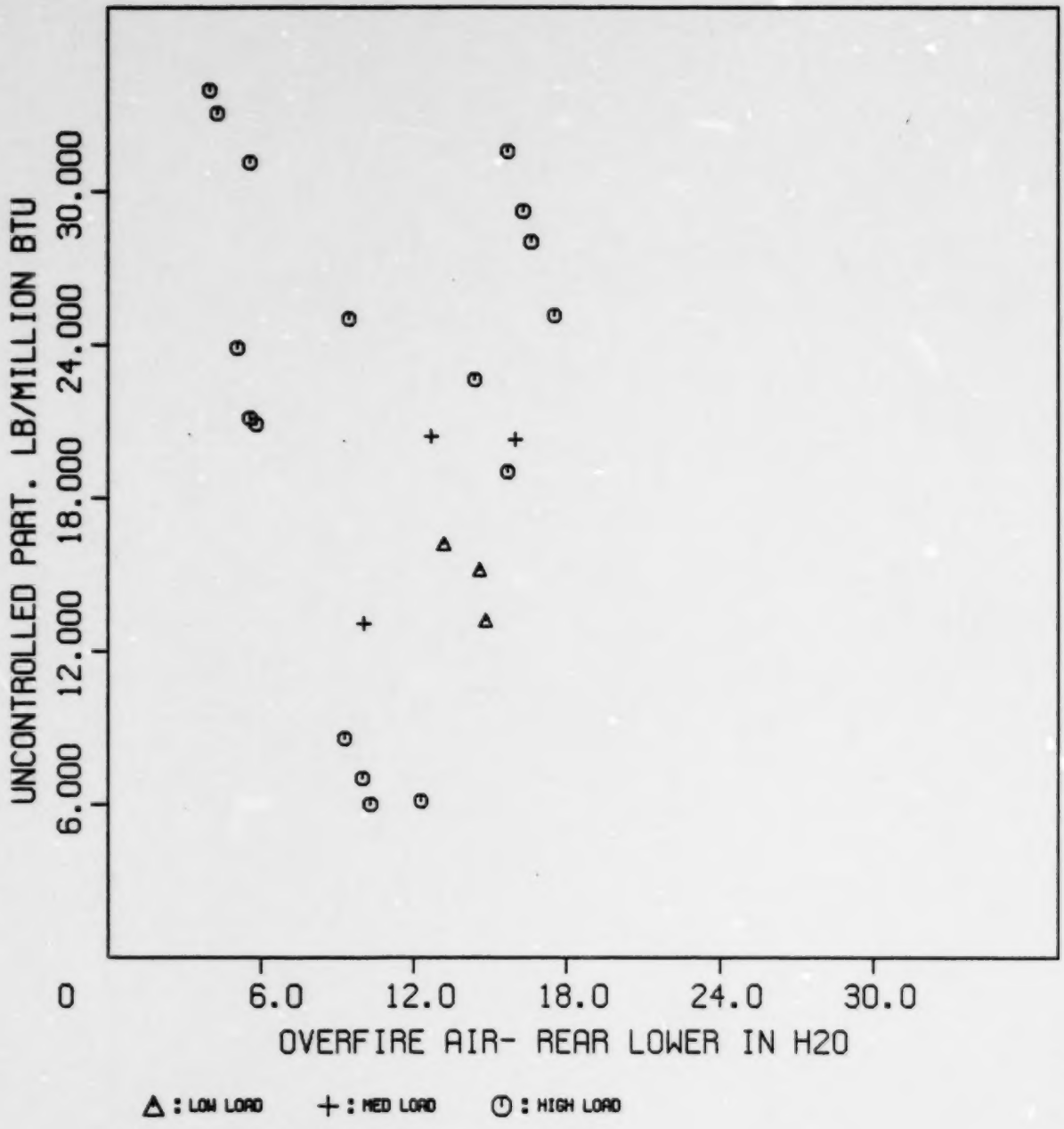


FIG. SITE C
UNCONTROLLED PART. VS. OVERFIRE AIR- REAR LOWER

KVB4-15900-554

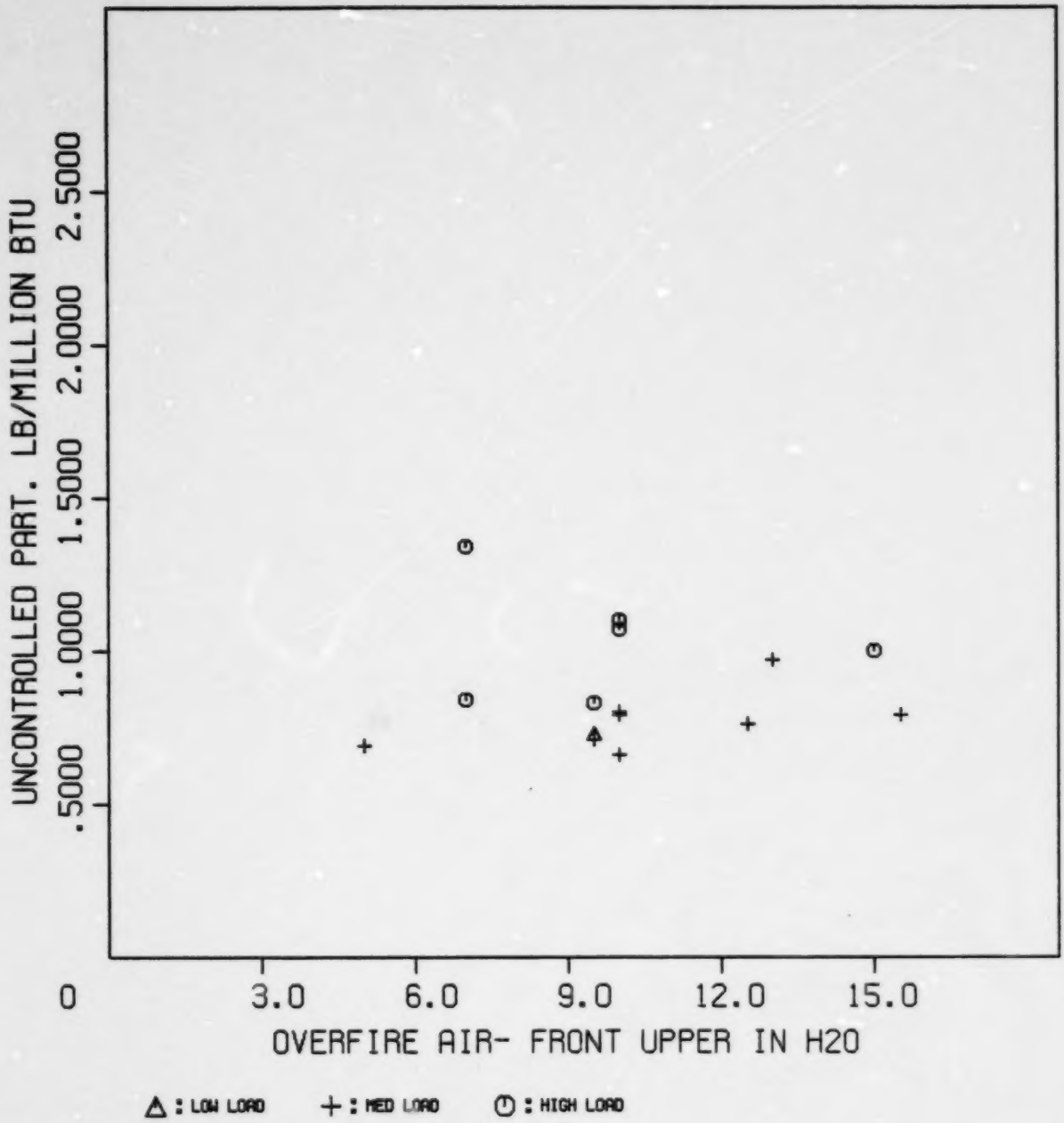


FIG. SITE D
UNCONTROLLED PART. VS. OVERFIRE AIR- FRONT UPPER

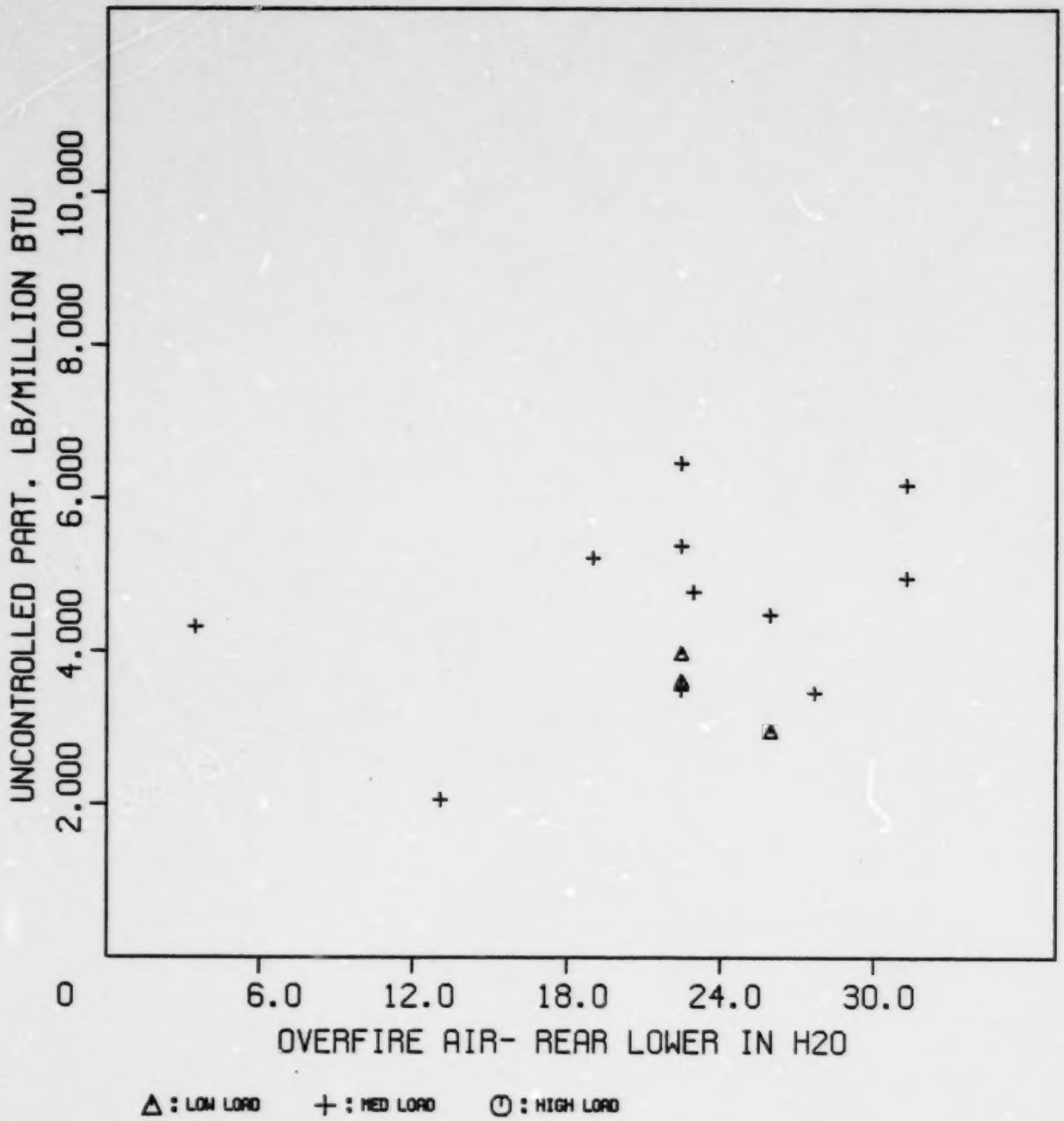


FIG. SITE E
UNCONTROLLED PART. VS. OVERFIRE AIR- REAR LOWER

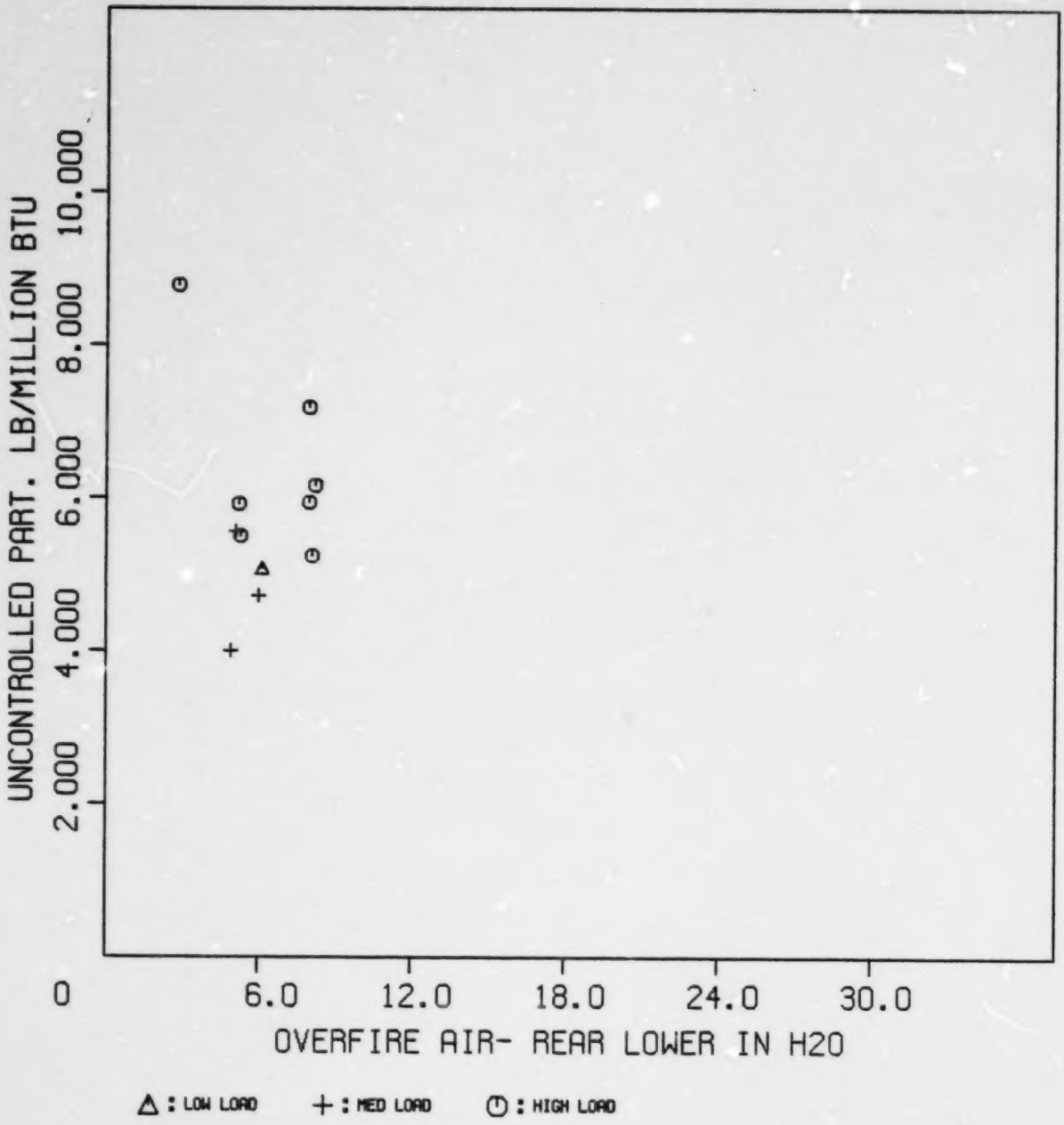


FIG. SITE F
UNCONTROLLED PART. VS. OVERFIRE AIR- REAR LOWER

KVB4-15900-554

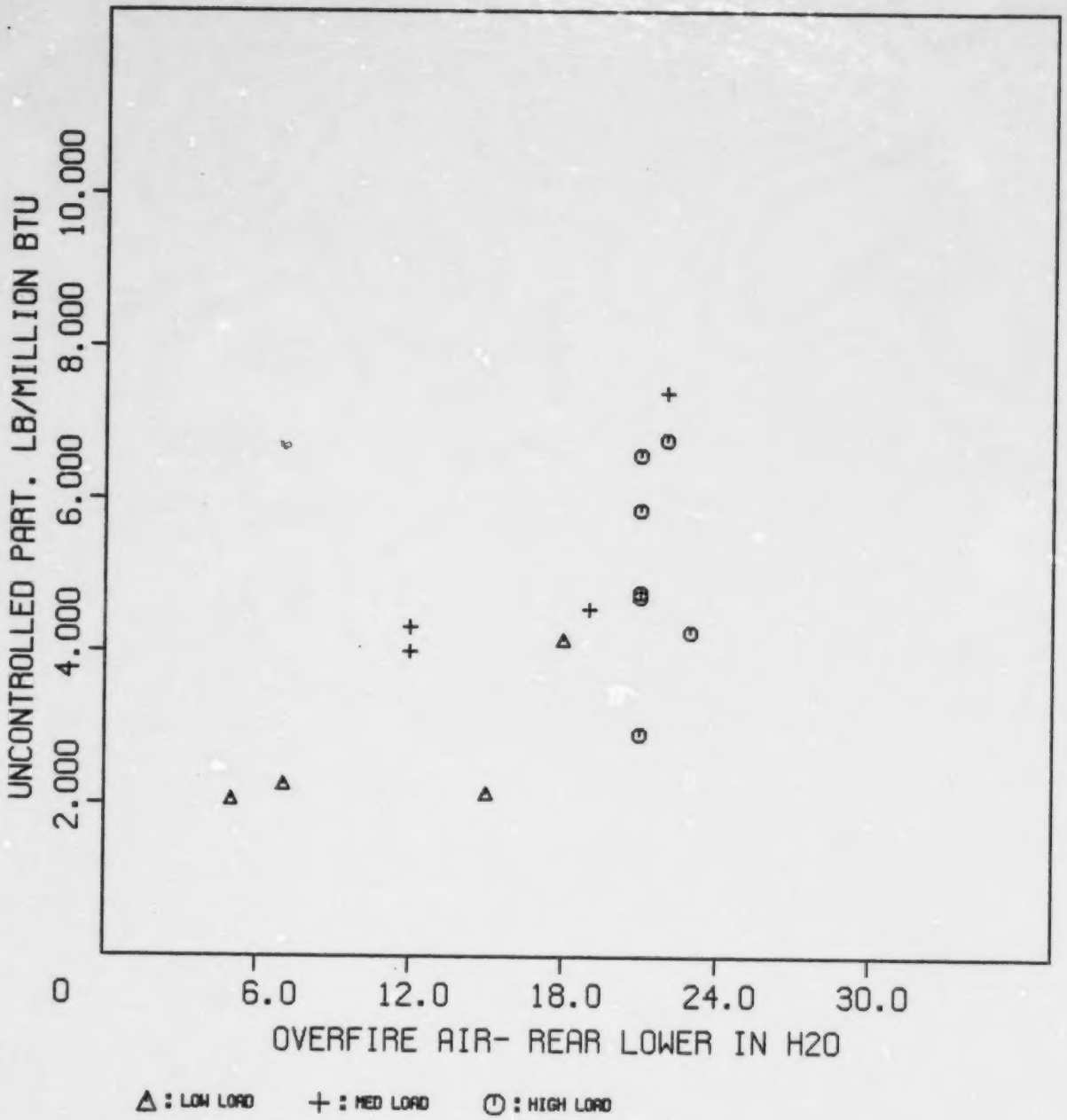


FIG. SITE G
UNCONTROLLED PART. VS. OVERFIRE AIR- REAR LOWER

KYB4-15900-554

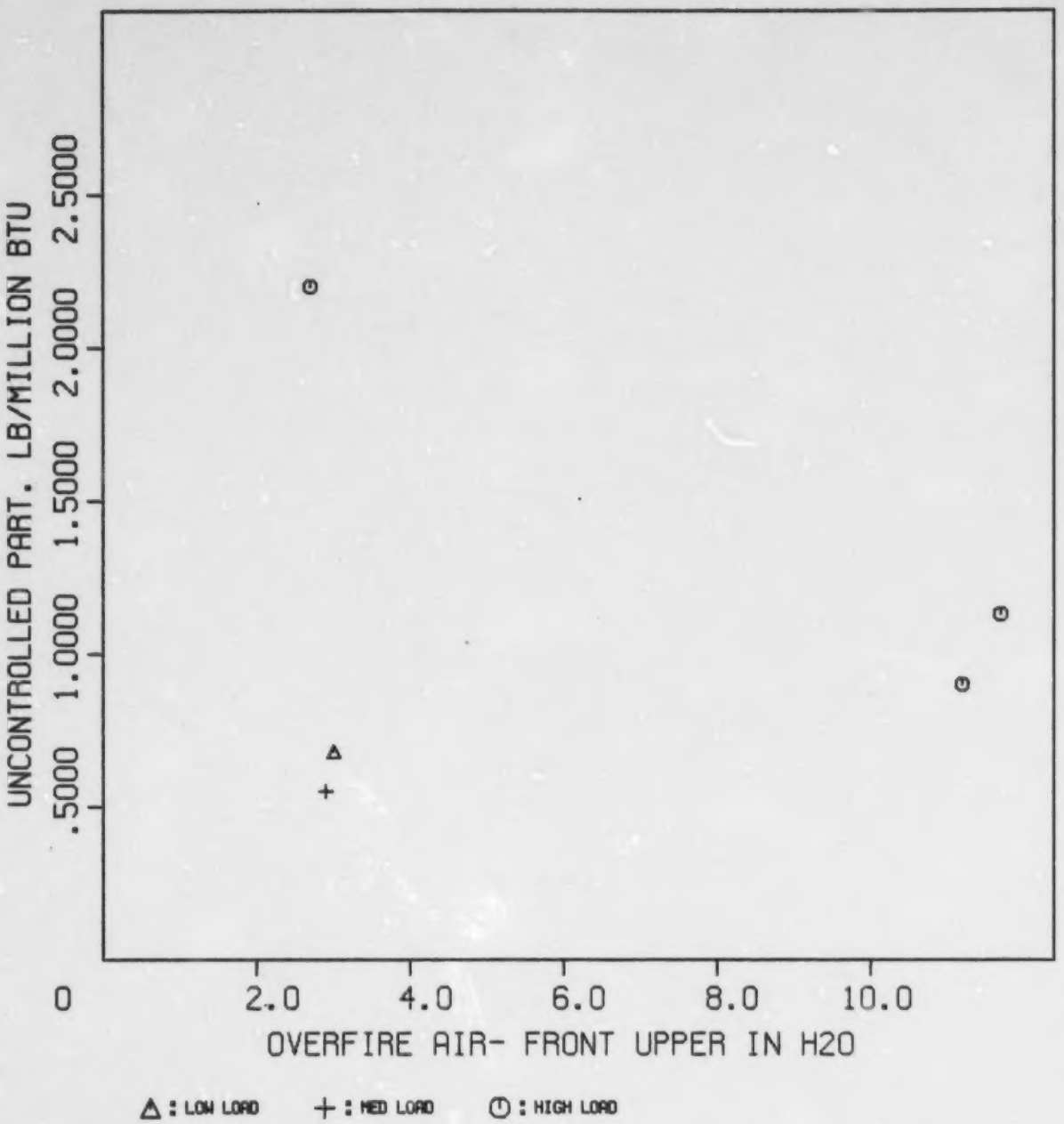


FIG. SITE H
UNCONTROLLED PART. VS. OVERFIRE AIR- FRONT UPPER

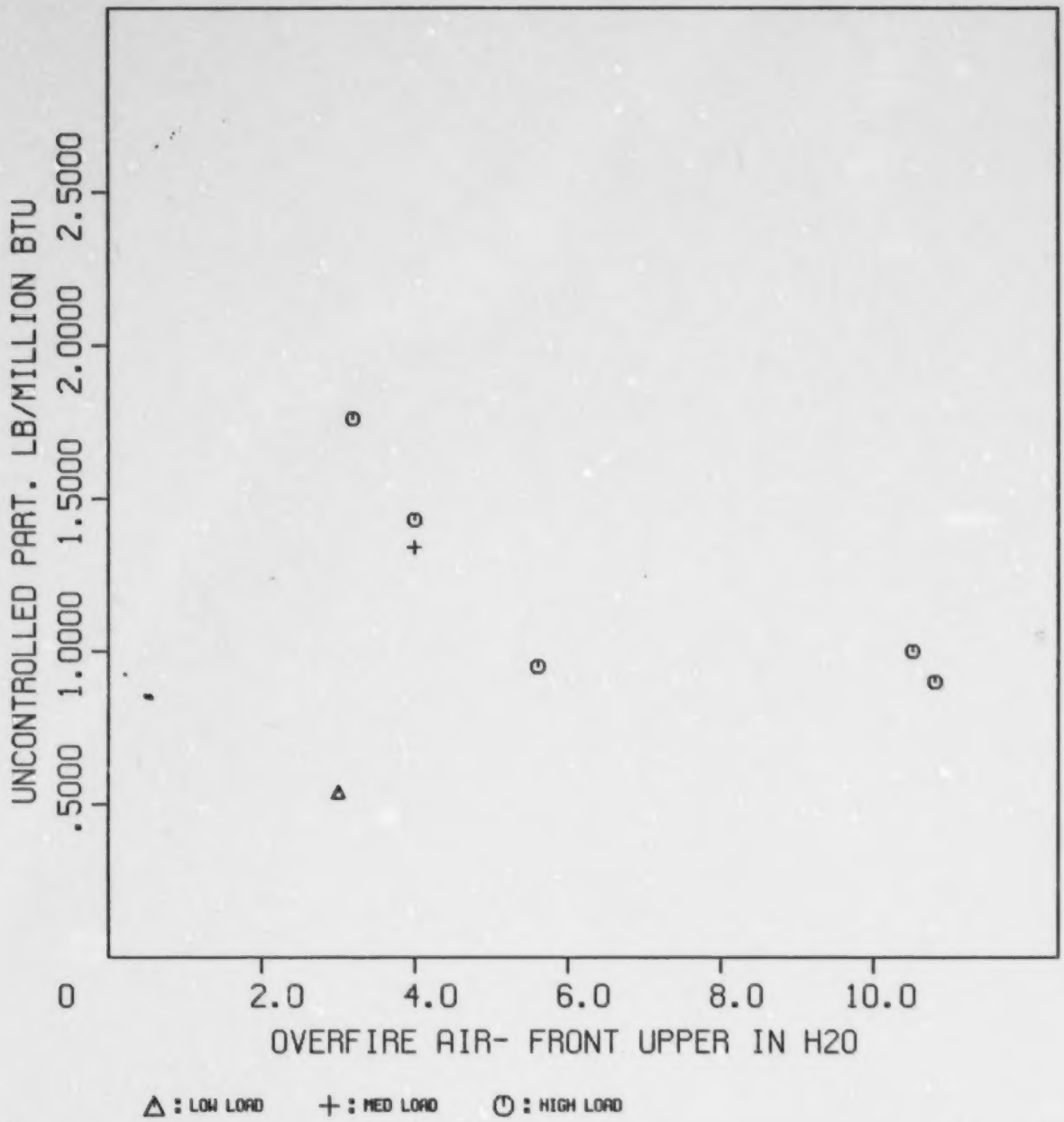


FIG. SITE I
UNCONTROLLED PART. VS. OVERFIRE AIR- FRONT UPPER

KVB4-15900-554

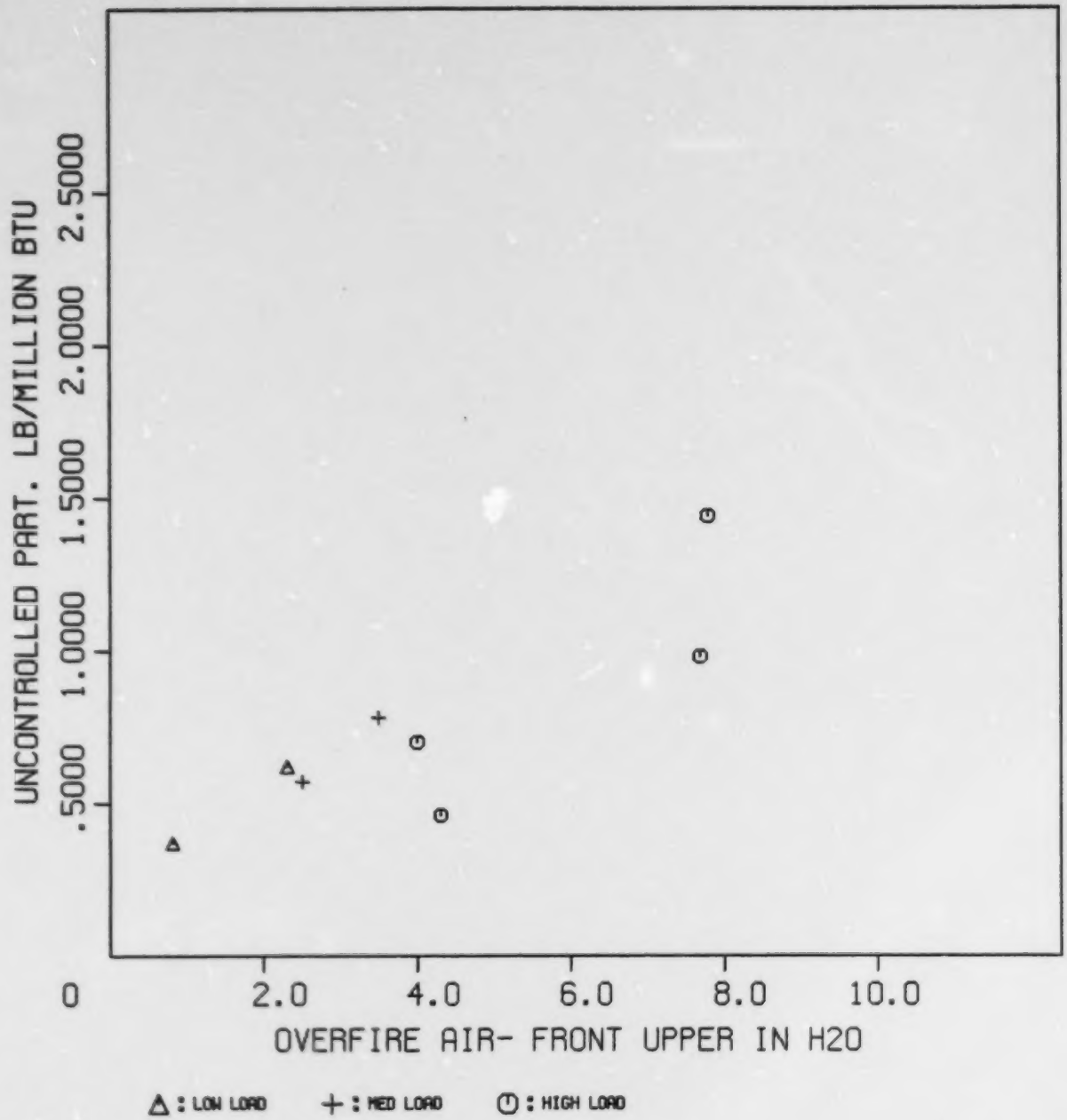


FIG. SITE J
UNCONTROLLED PART. VS. OVERFIRE AIR- FRONT UPPER

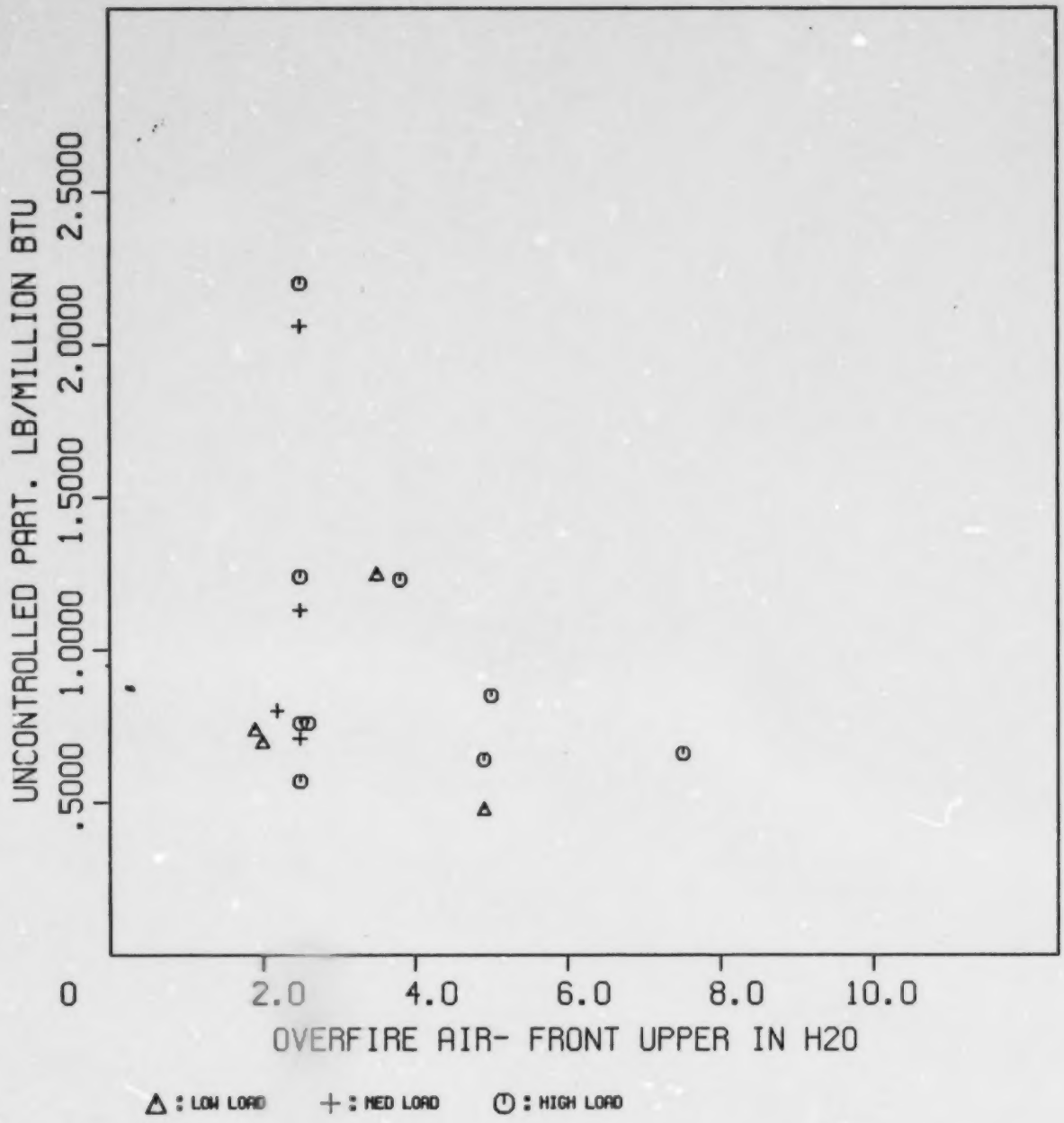


FIG. SITE K
UNCONTROLLED PART. VS. OVERFIRE AIR- FRONT UPPER

KVB4-15900-554

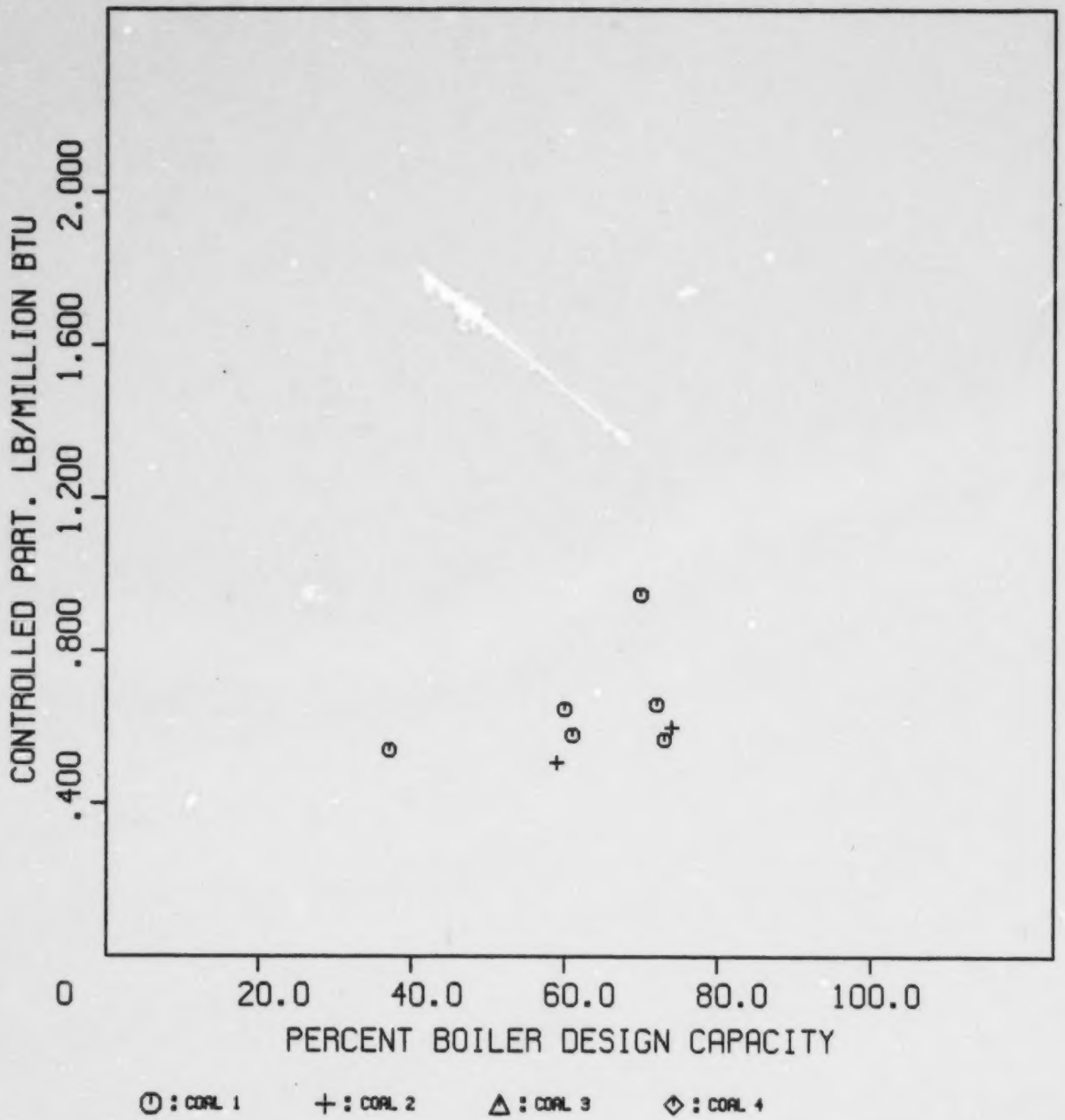


FIG. SITE A
CONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

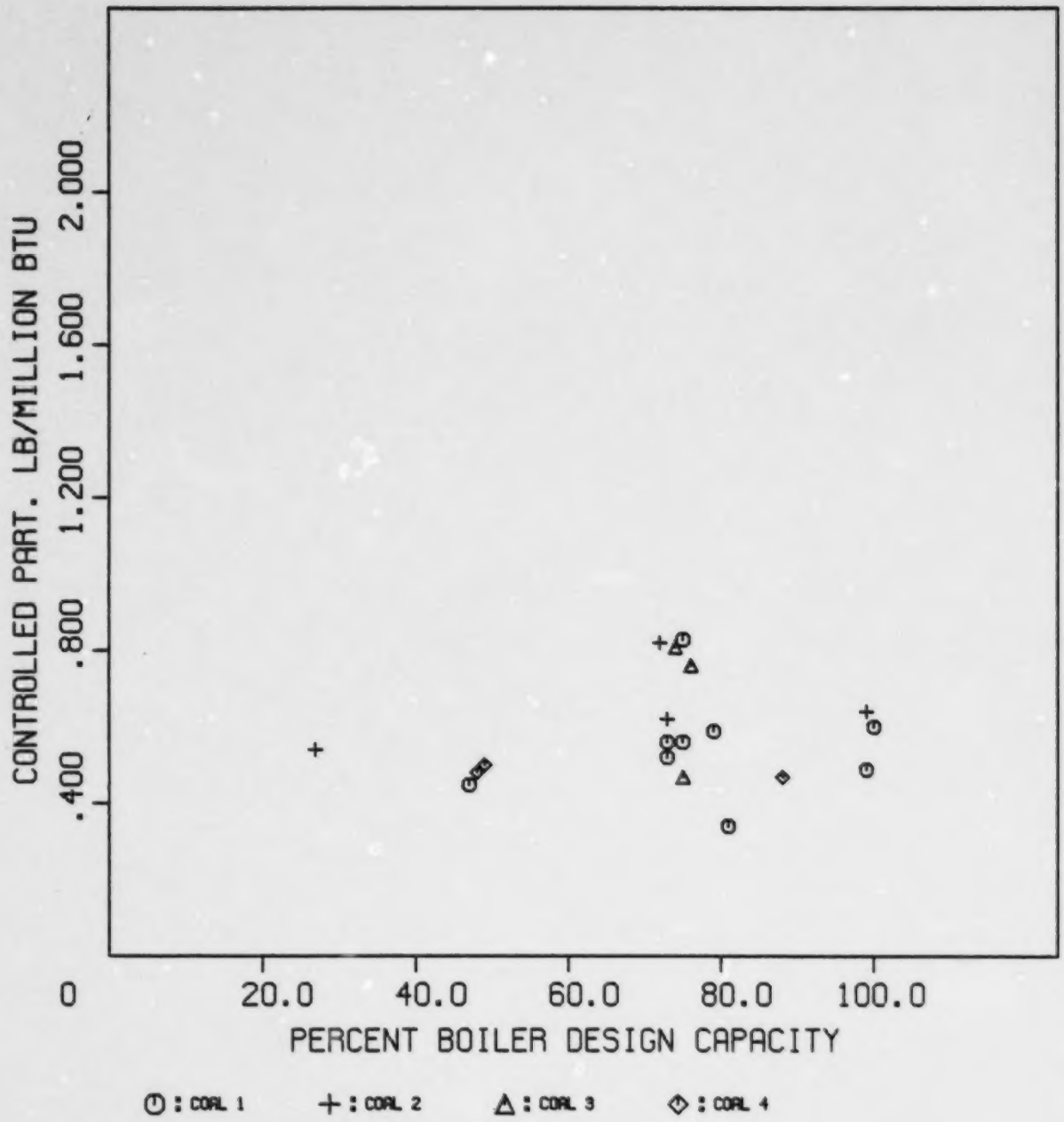


FIG. SITE B
CONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15800-554

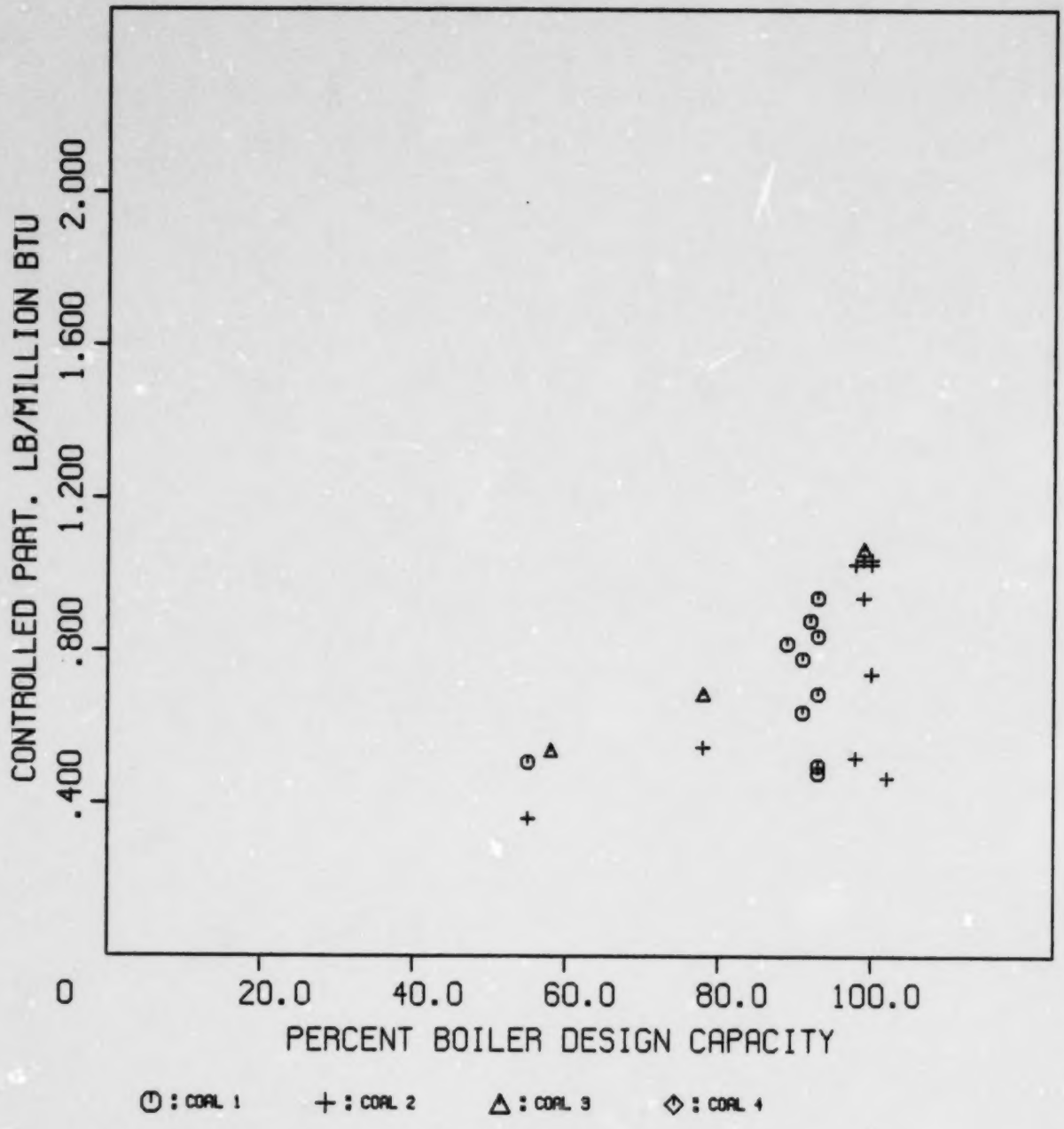


FIG. SITE C
CONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

KYB4-15900-554

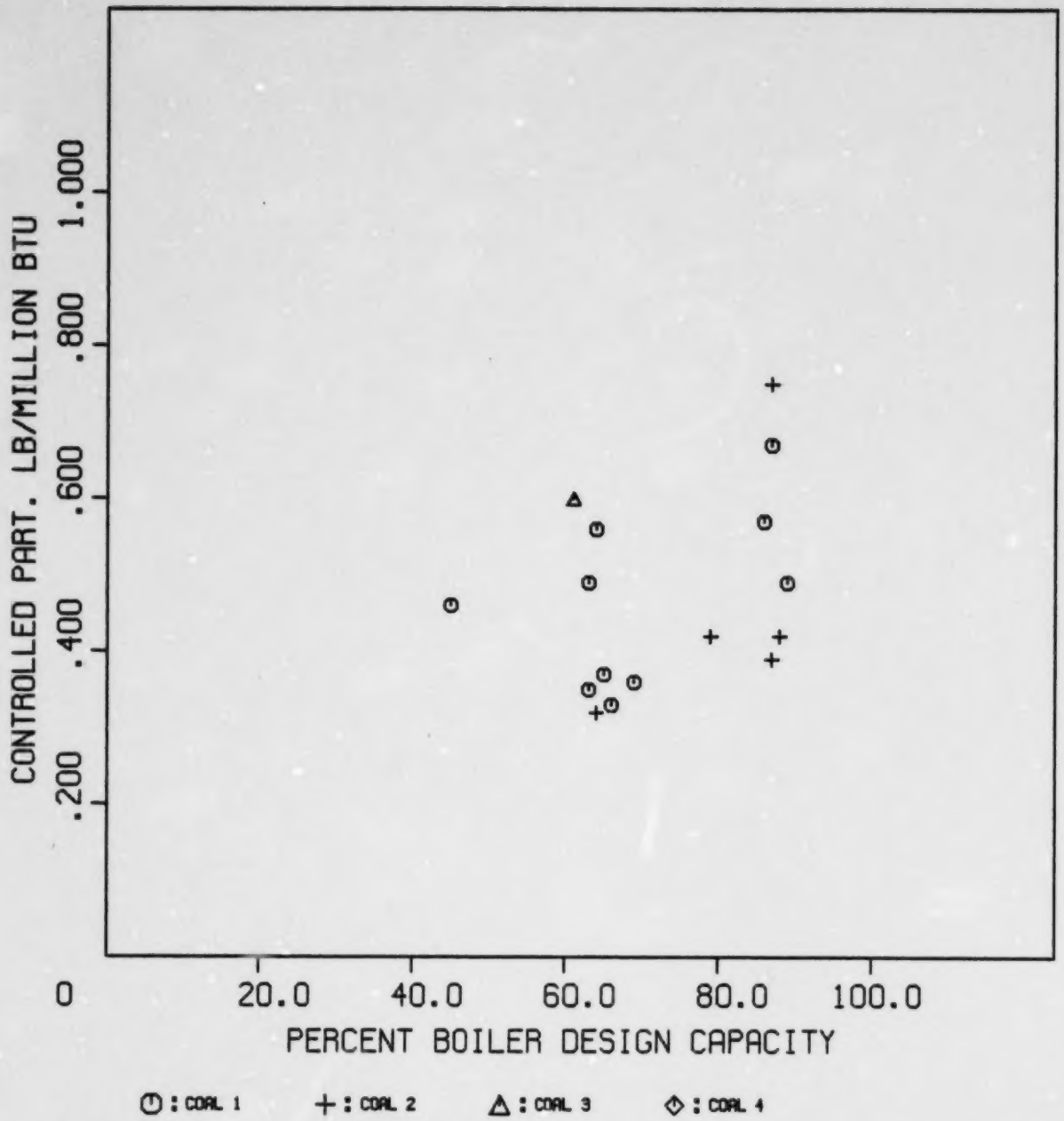


FIG. SITE D
CONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

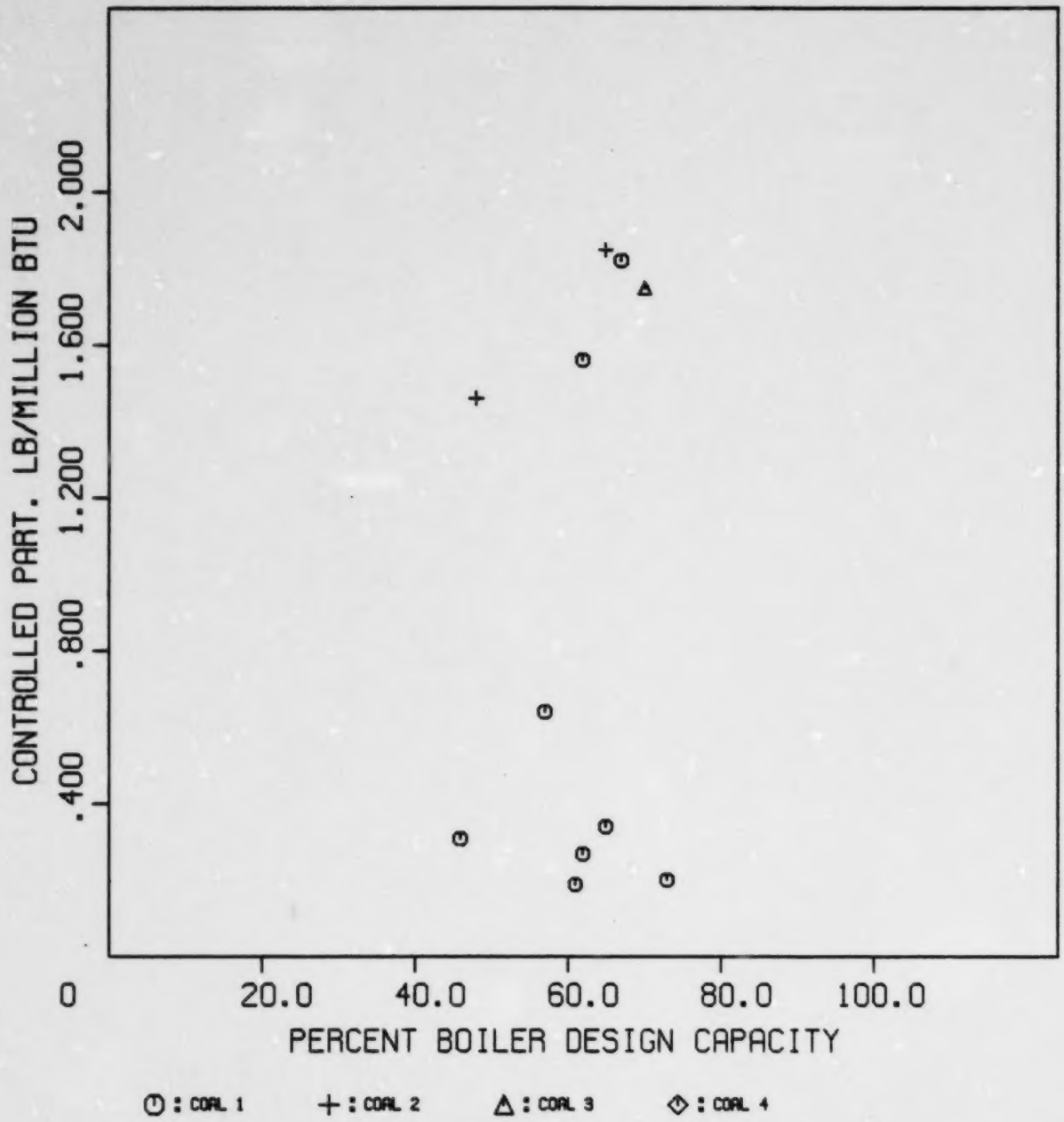


FIG. SITE E
CONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

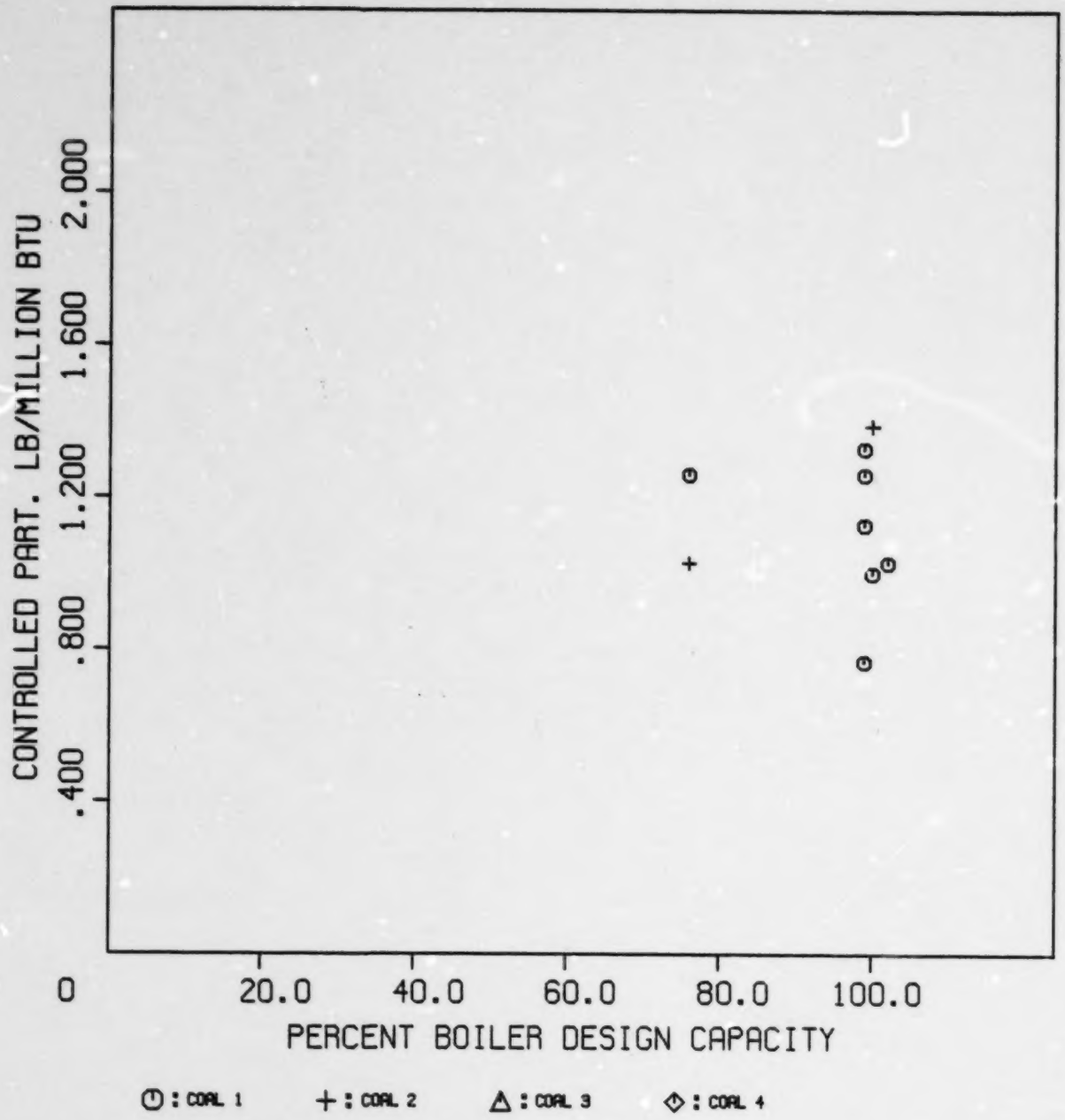


FIG. SITE F
CONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

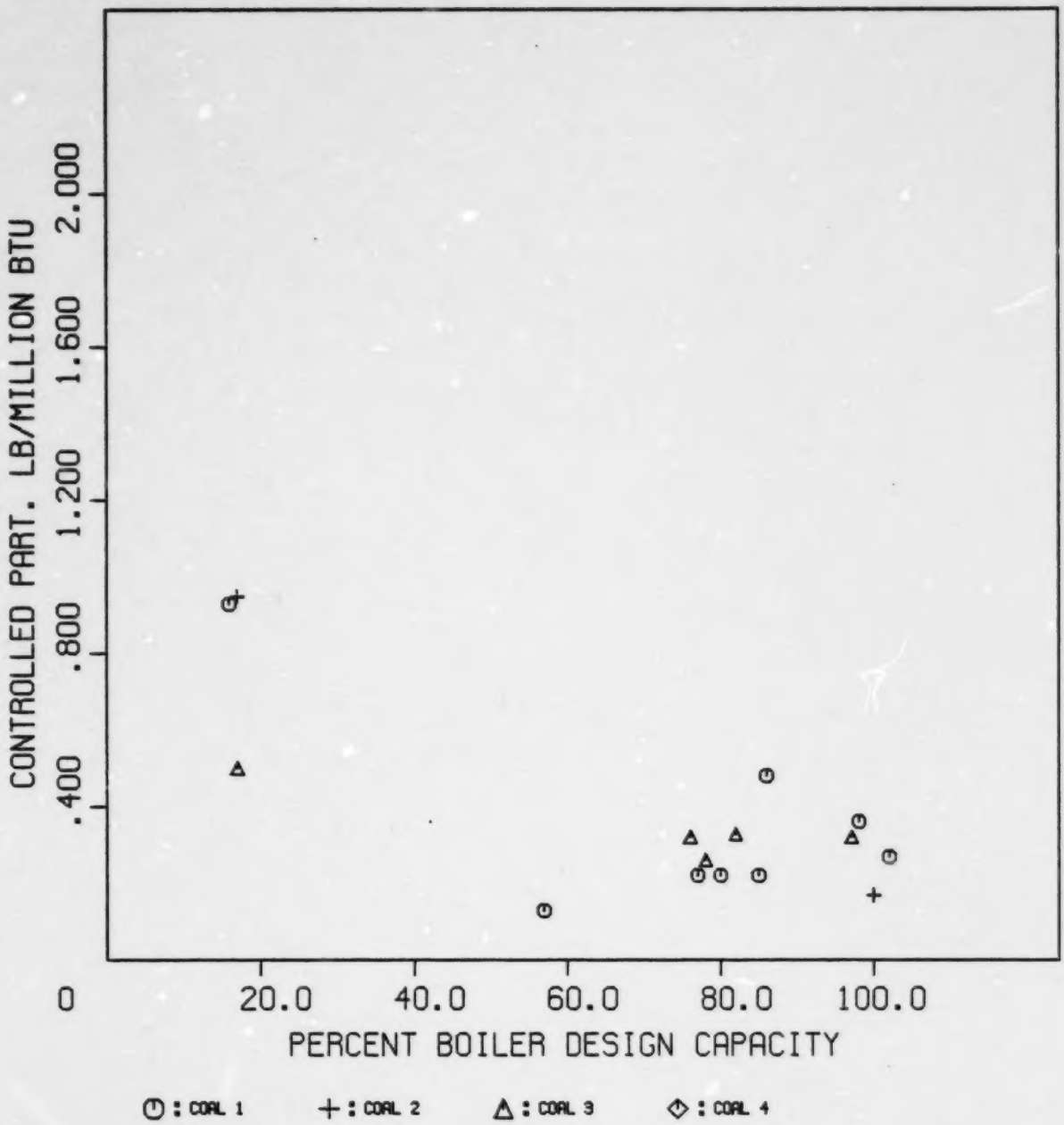


FIG. SITE G
CONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

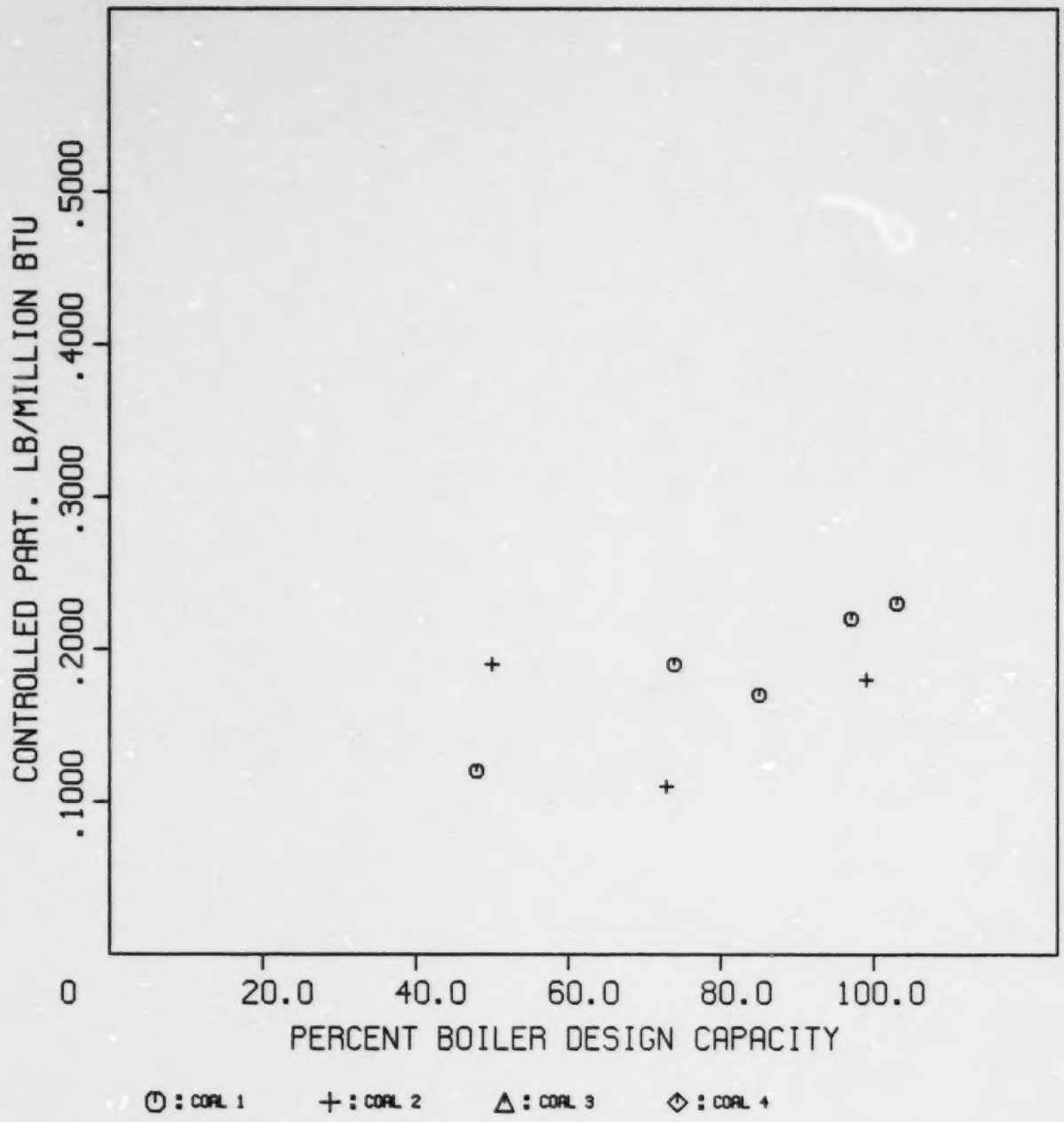


FIG. SITE J
CONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

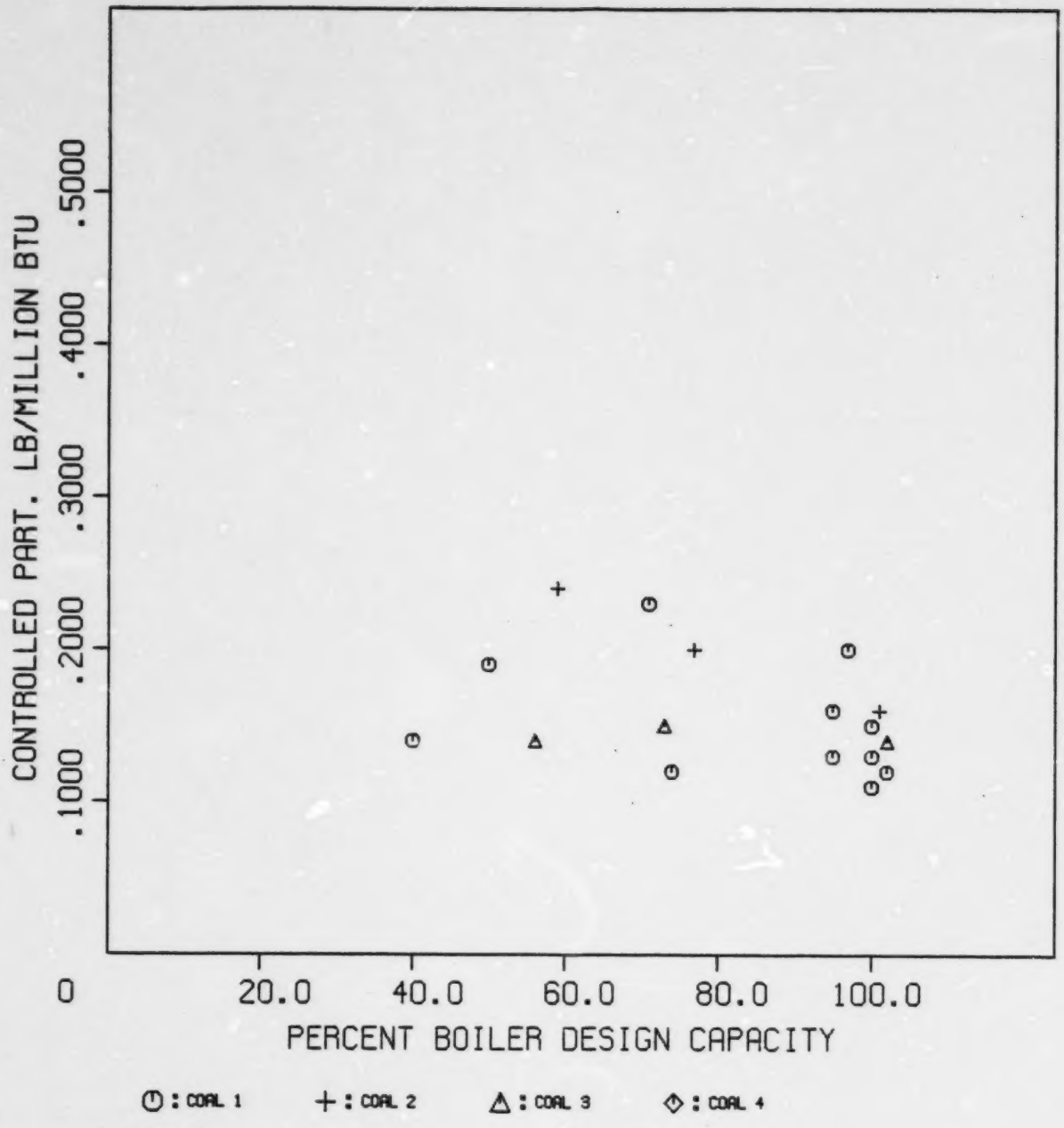


FIG. SITE K
CONTROLLED PART. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

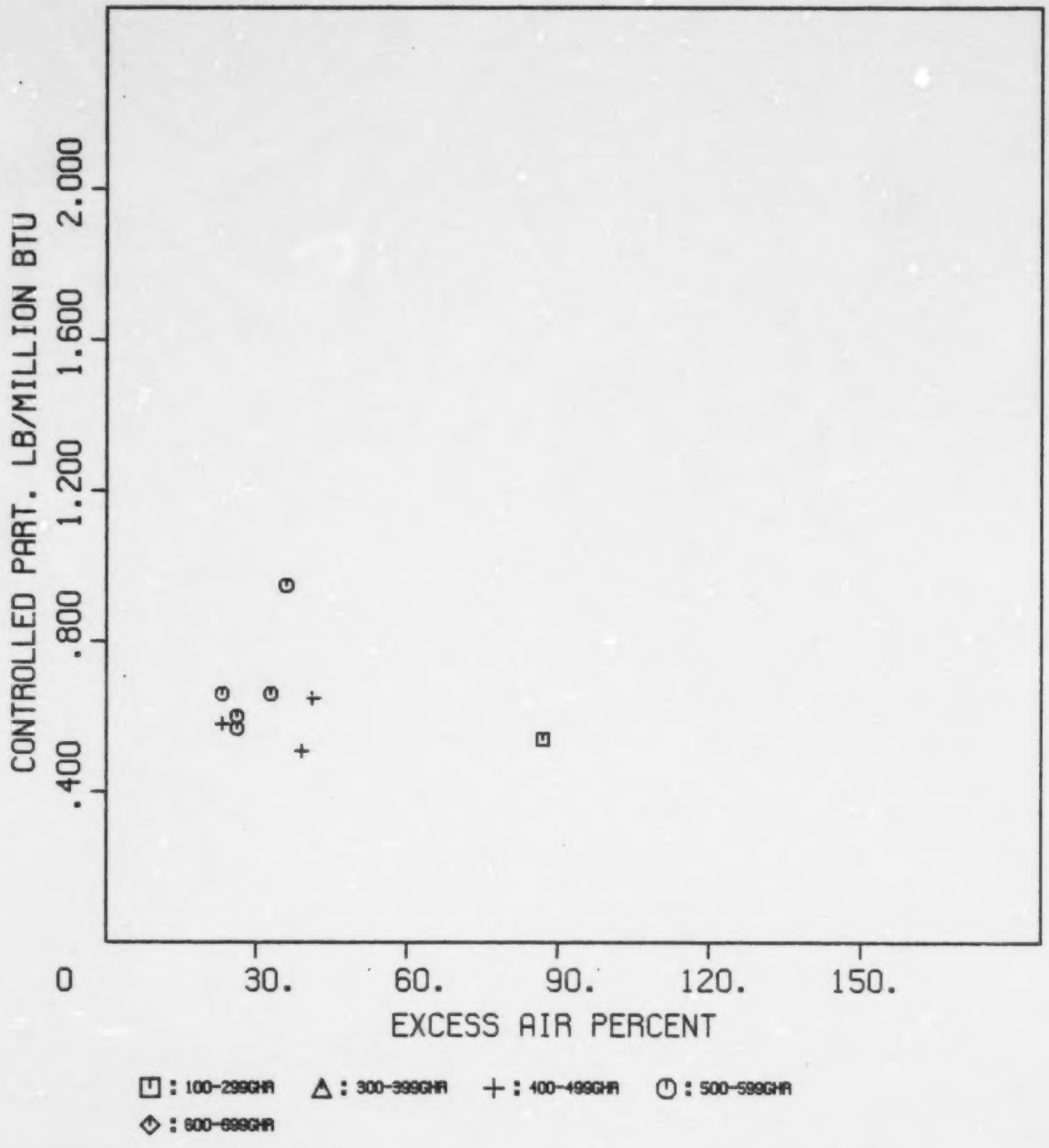


FIG. SITE A
CONTROLLED PART. VS. EXCESS AIR

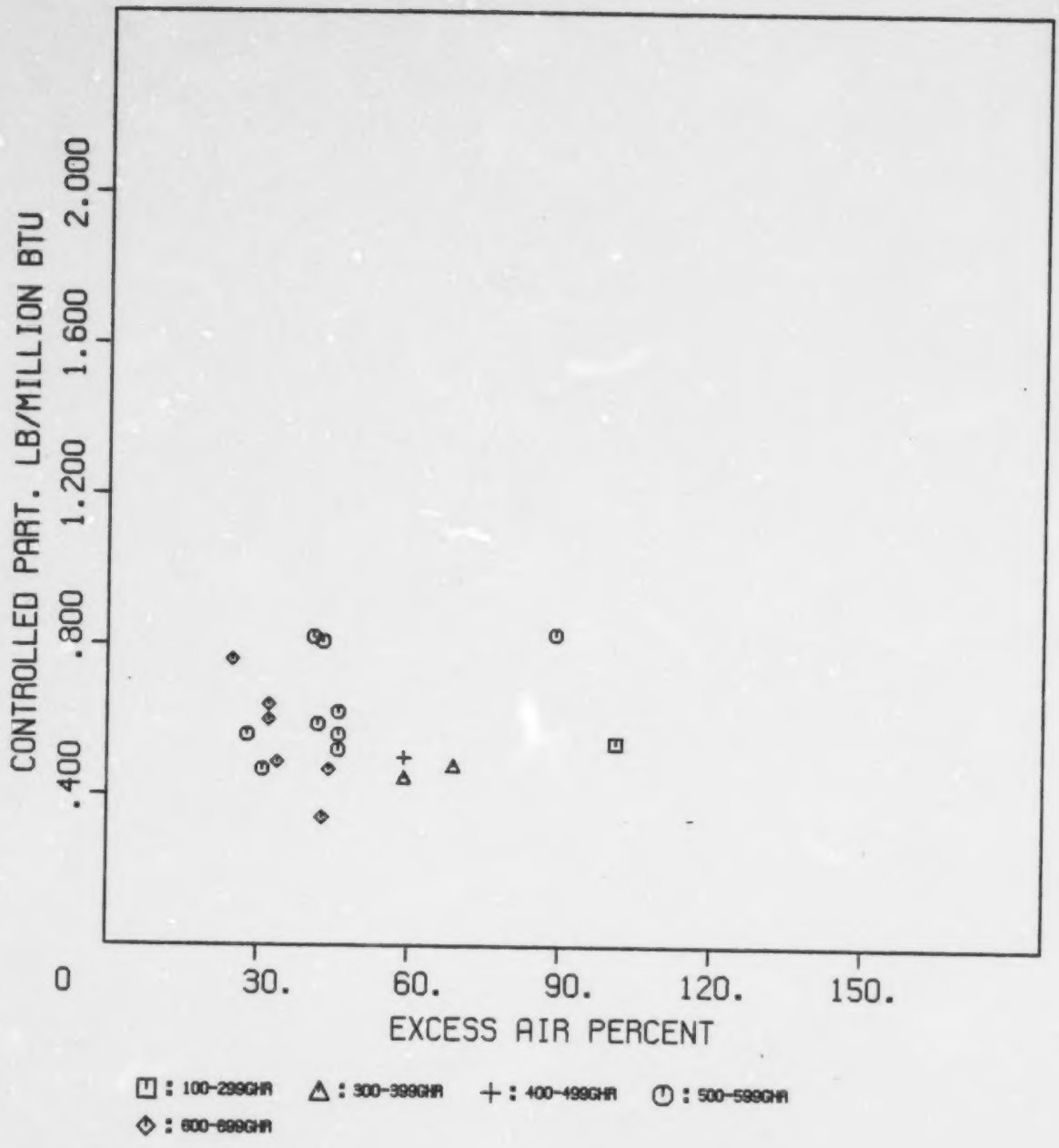


FIG. SITE B
CONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

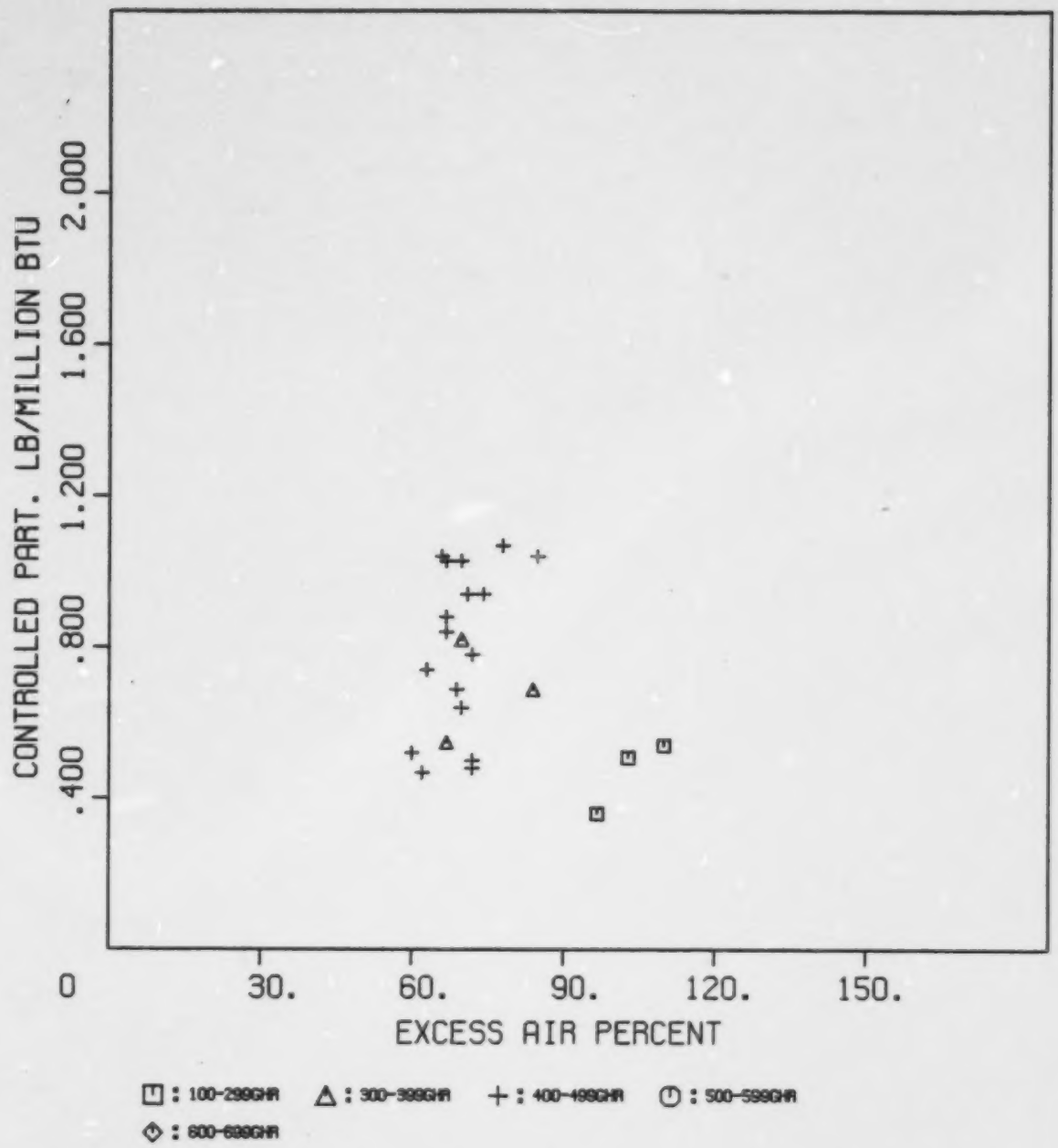


FIG. SITE C
CONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

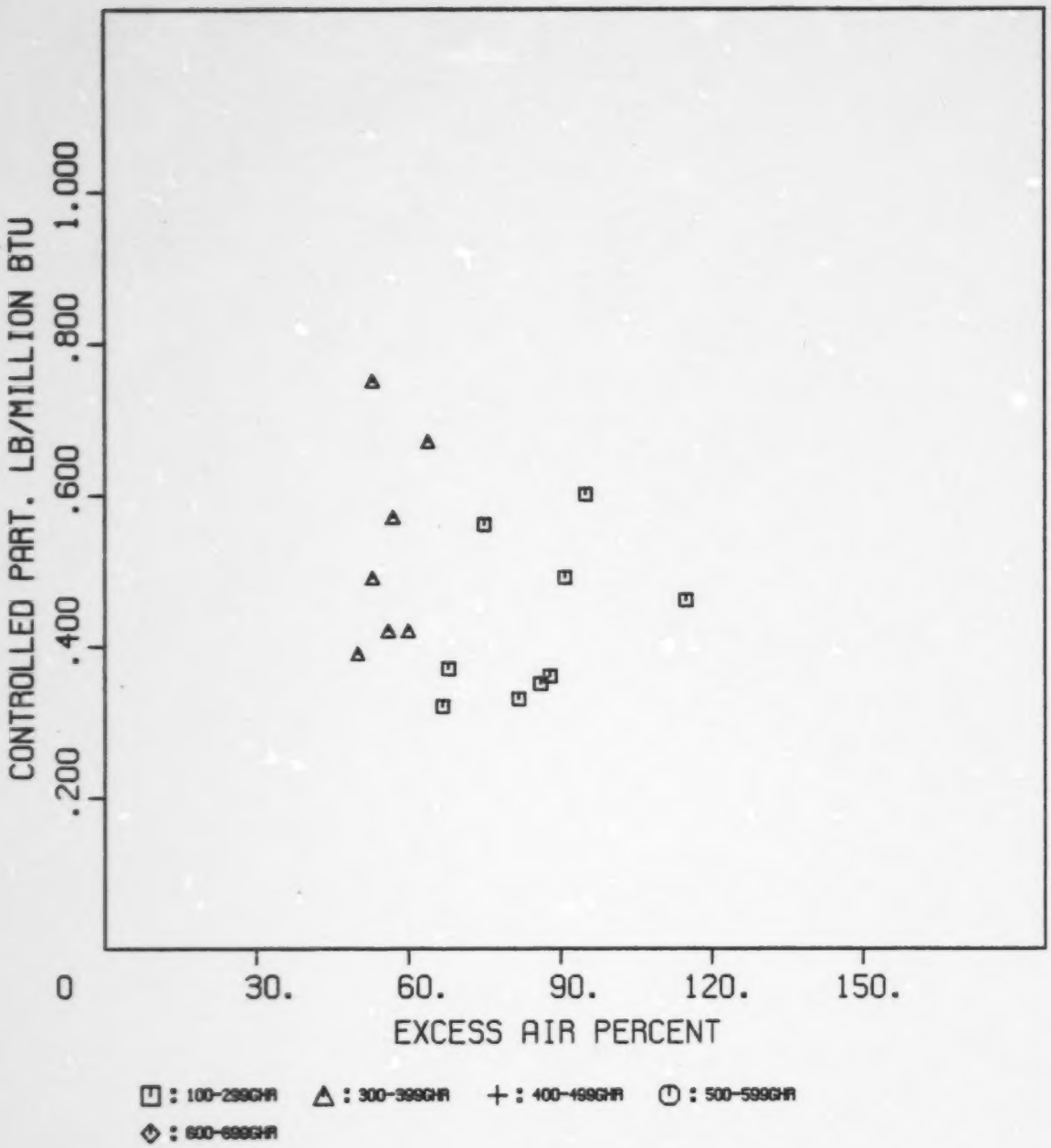


FIG. SITE D
CONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

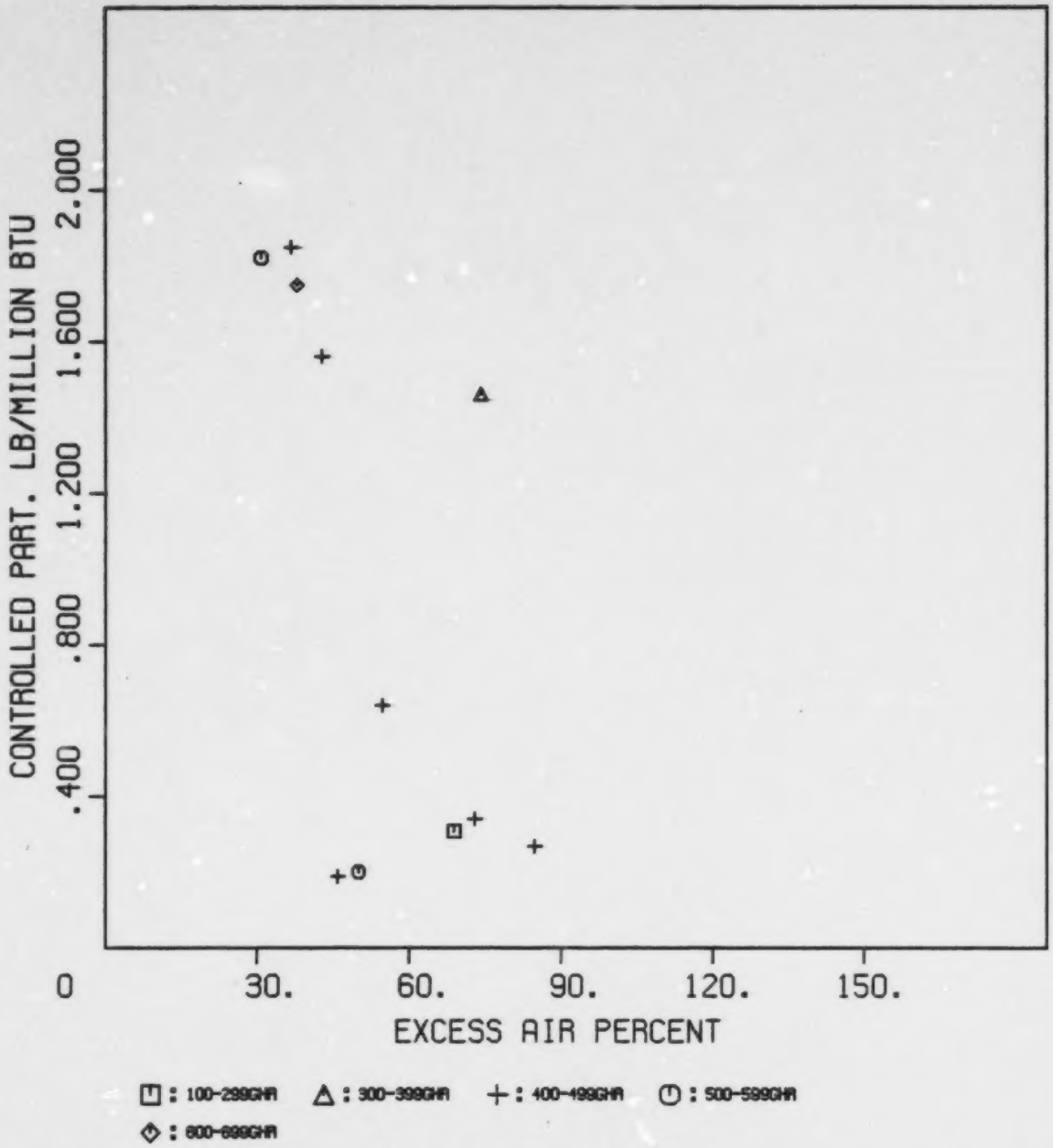


FIG. SITE E
CONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

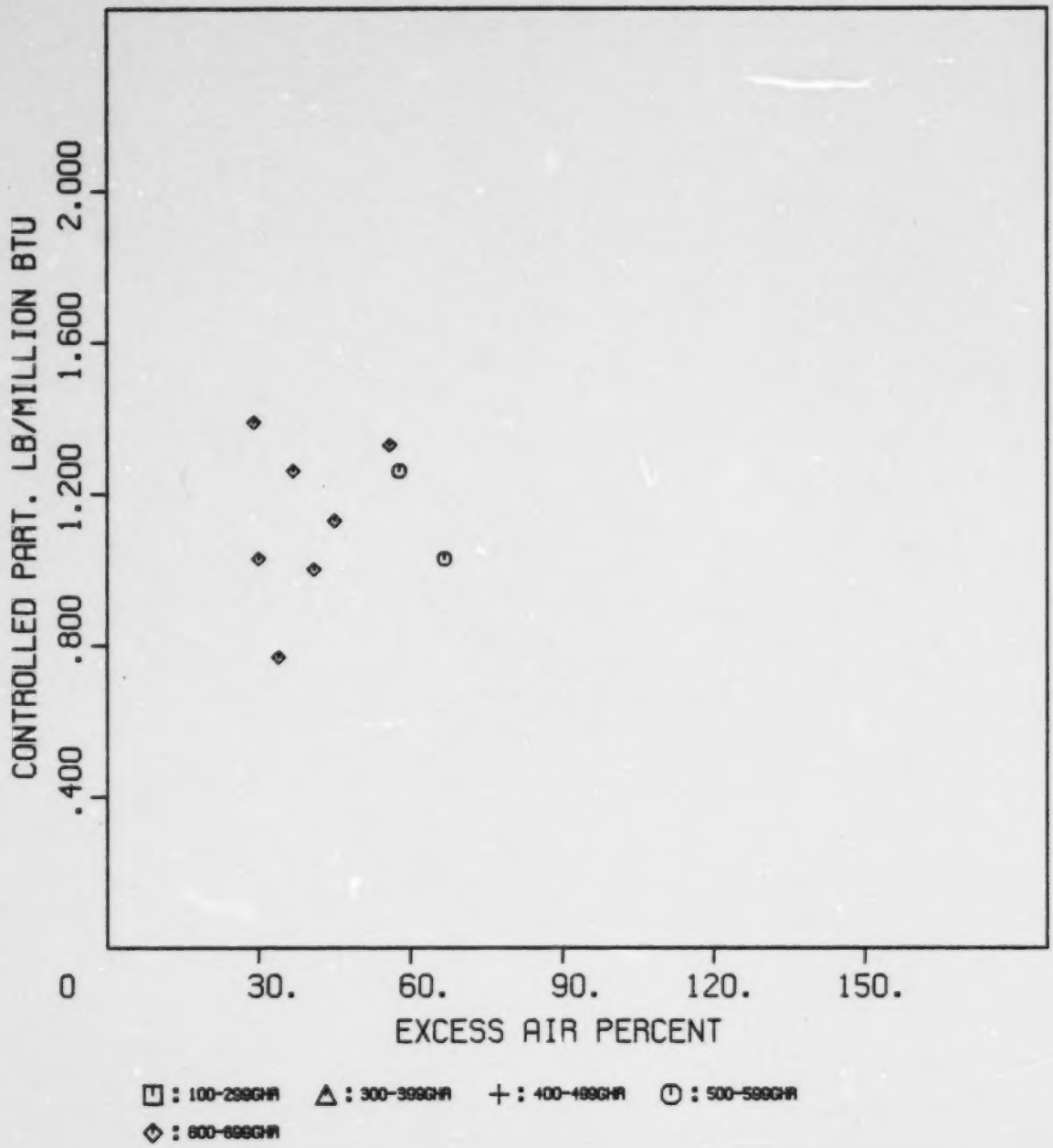


FIG. SITE F
CONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

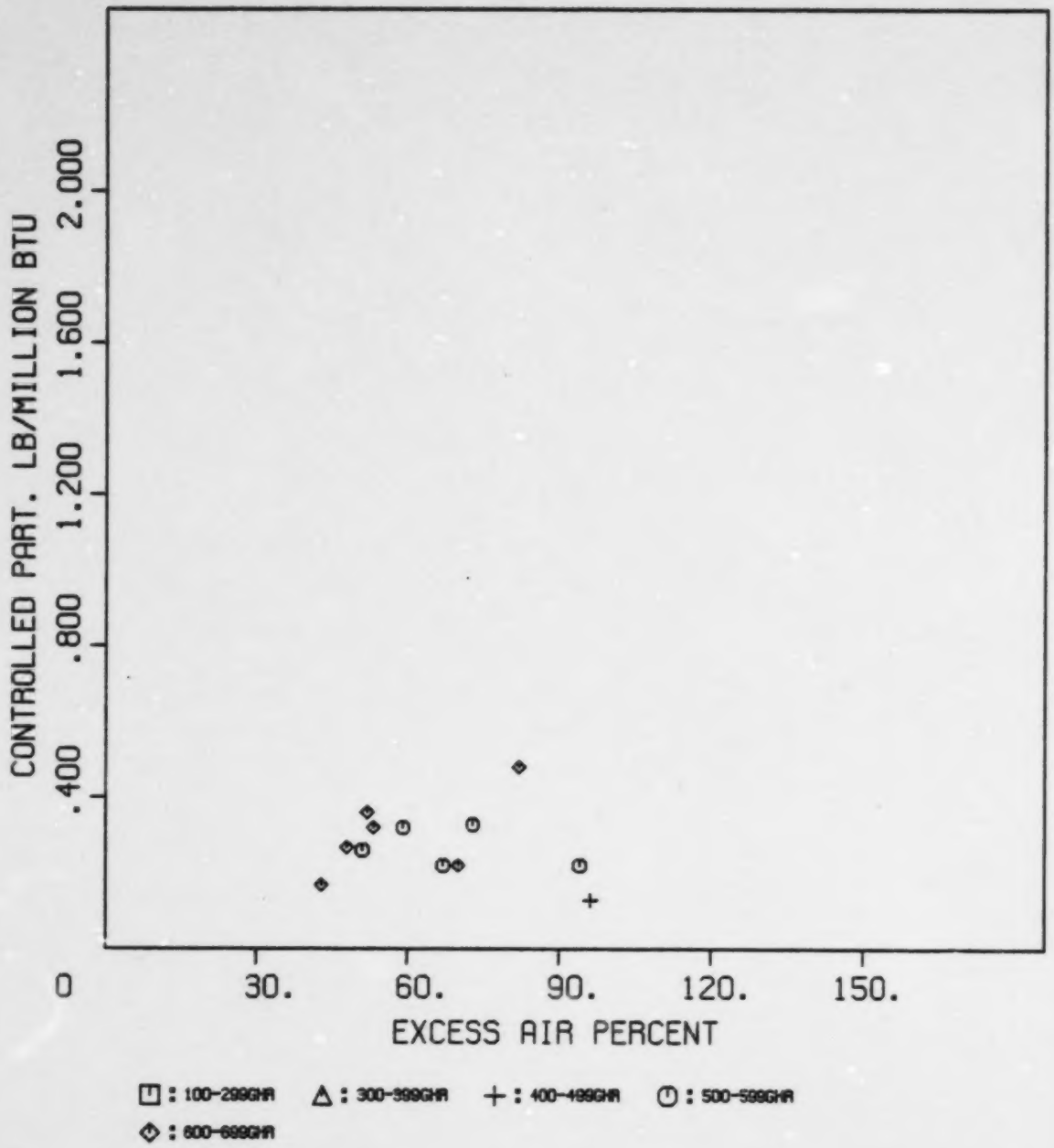


FIG. SITE G
CONTROLLED PART. VS. EXCESS AIR

KVB4-15900-554

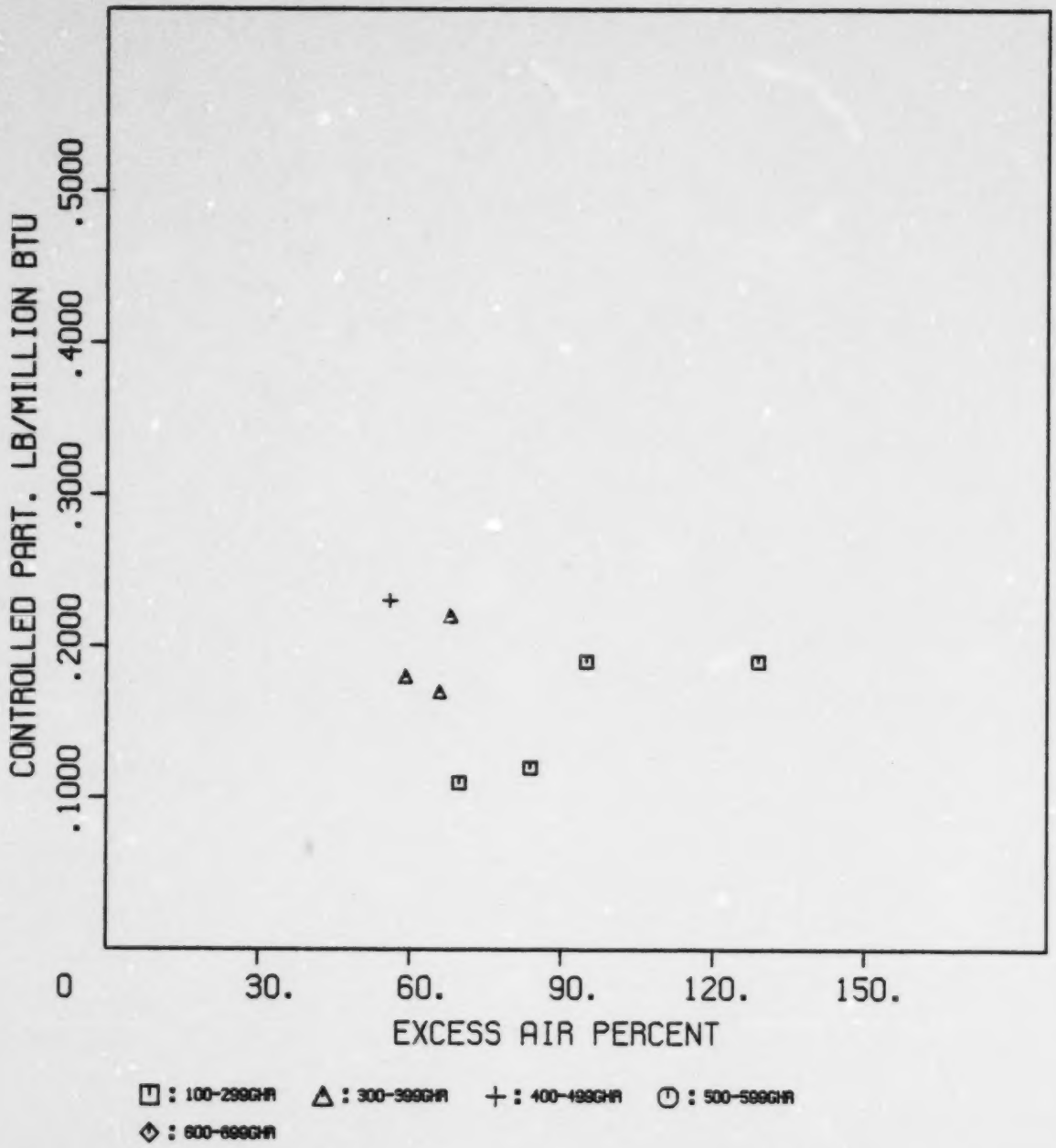


FIG. SITE J
CONTROLLED PART. VS. EXCESS AIR

KVB4-15800-554

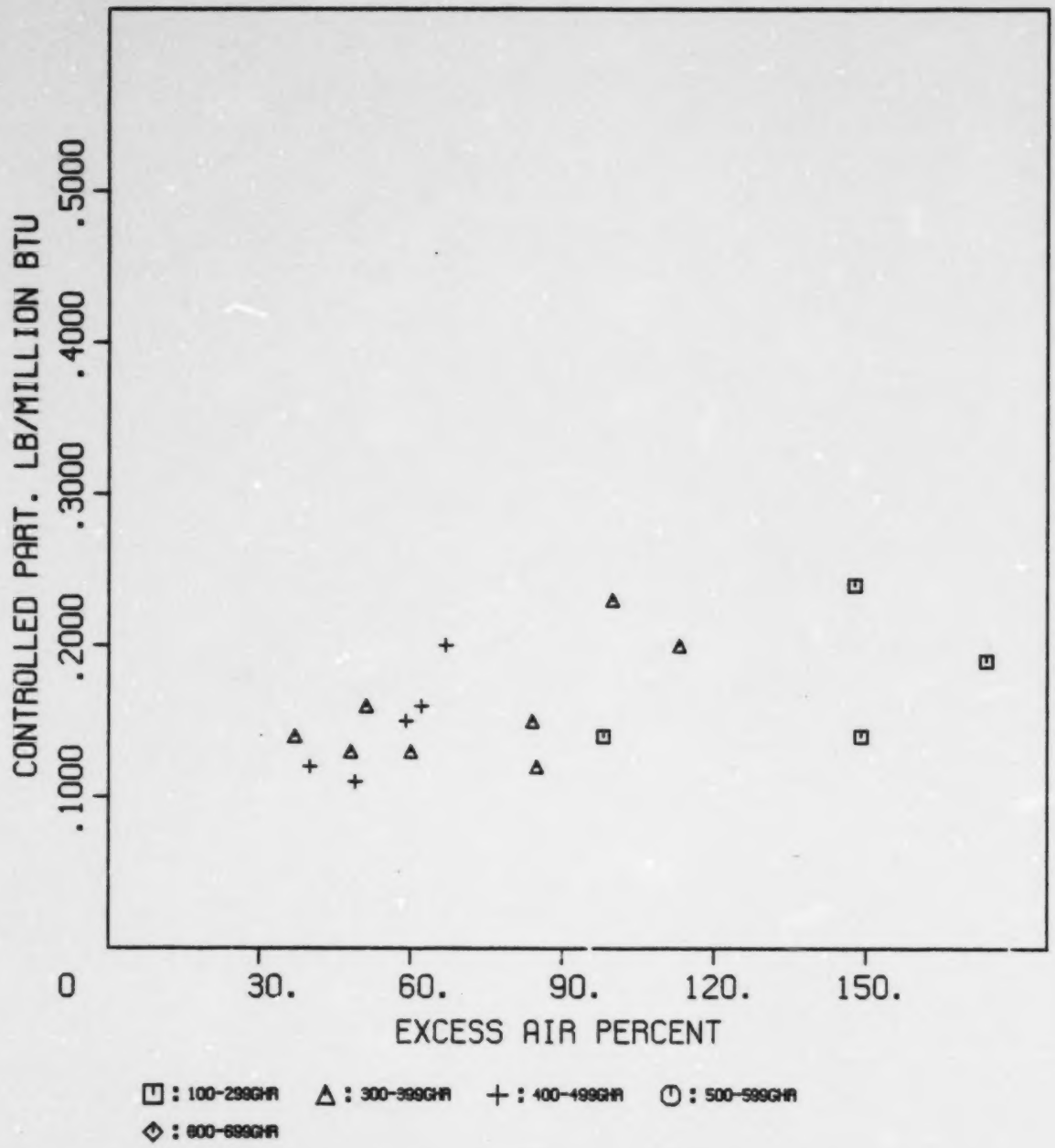


FIG. SITE K
CONTROLLED PART. VS. EXCESS AIR

KVB4-15800-554

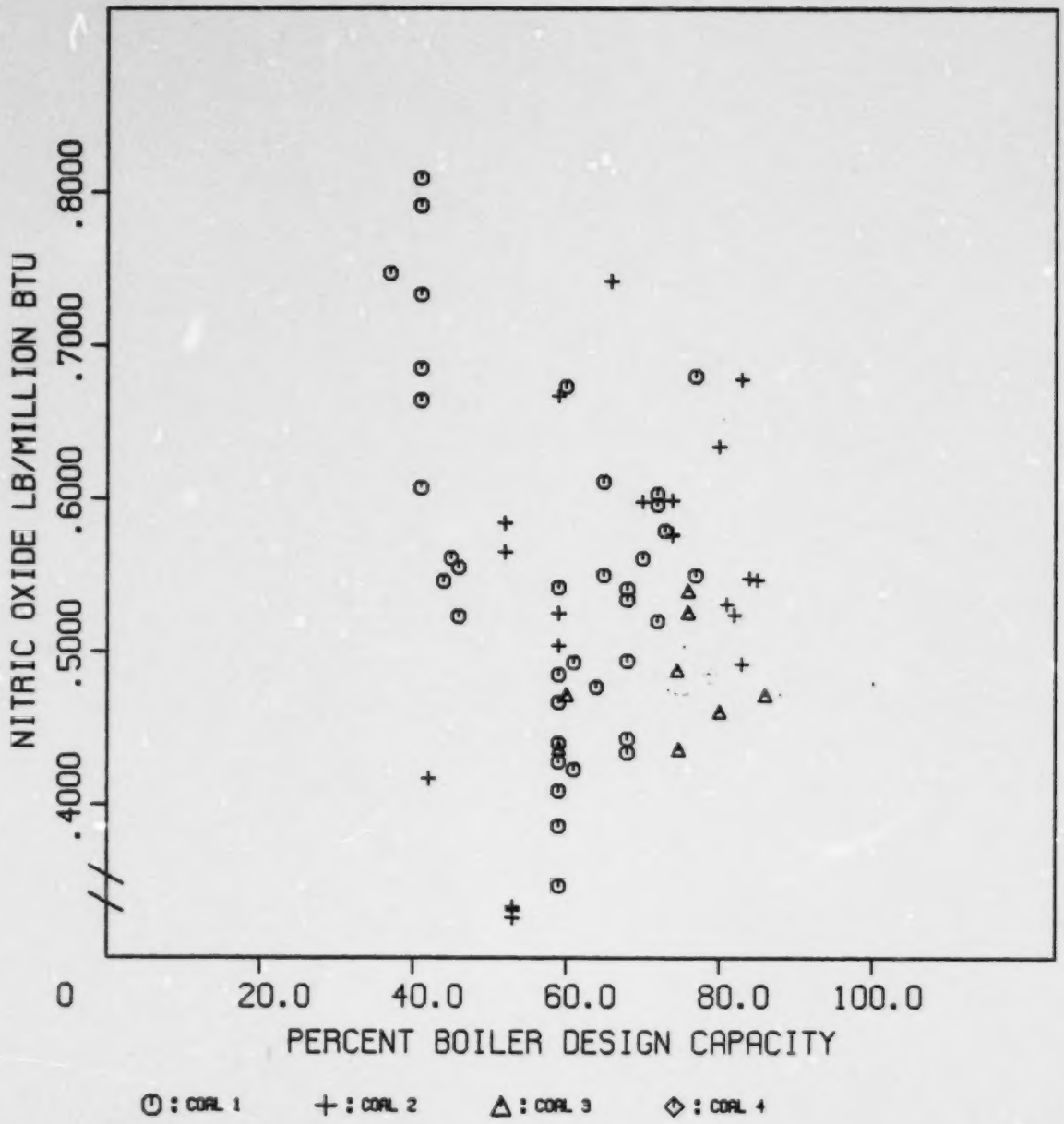


FIG. SITE A
NITRIC OXIDE VS. PERCENT BOILER DESIGN CAPACITY

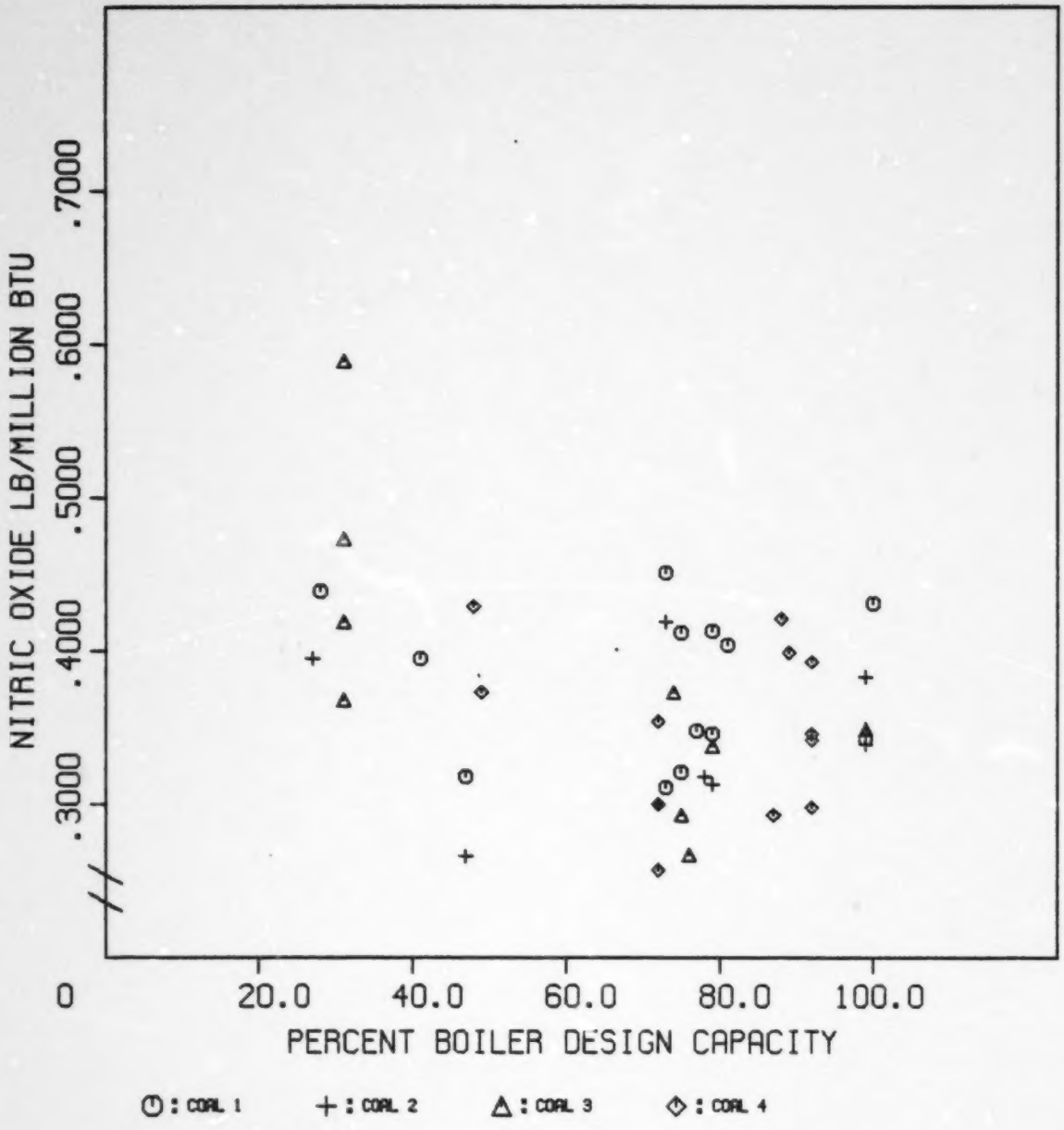


FIG. SITE B
NITRIC OXIDE VS. PERCENT BOILER DESIGN CAPACITY

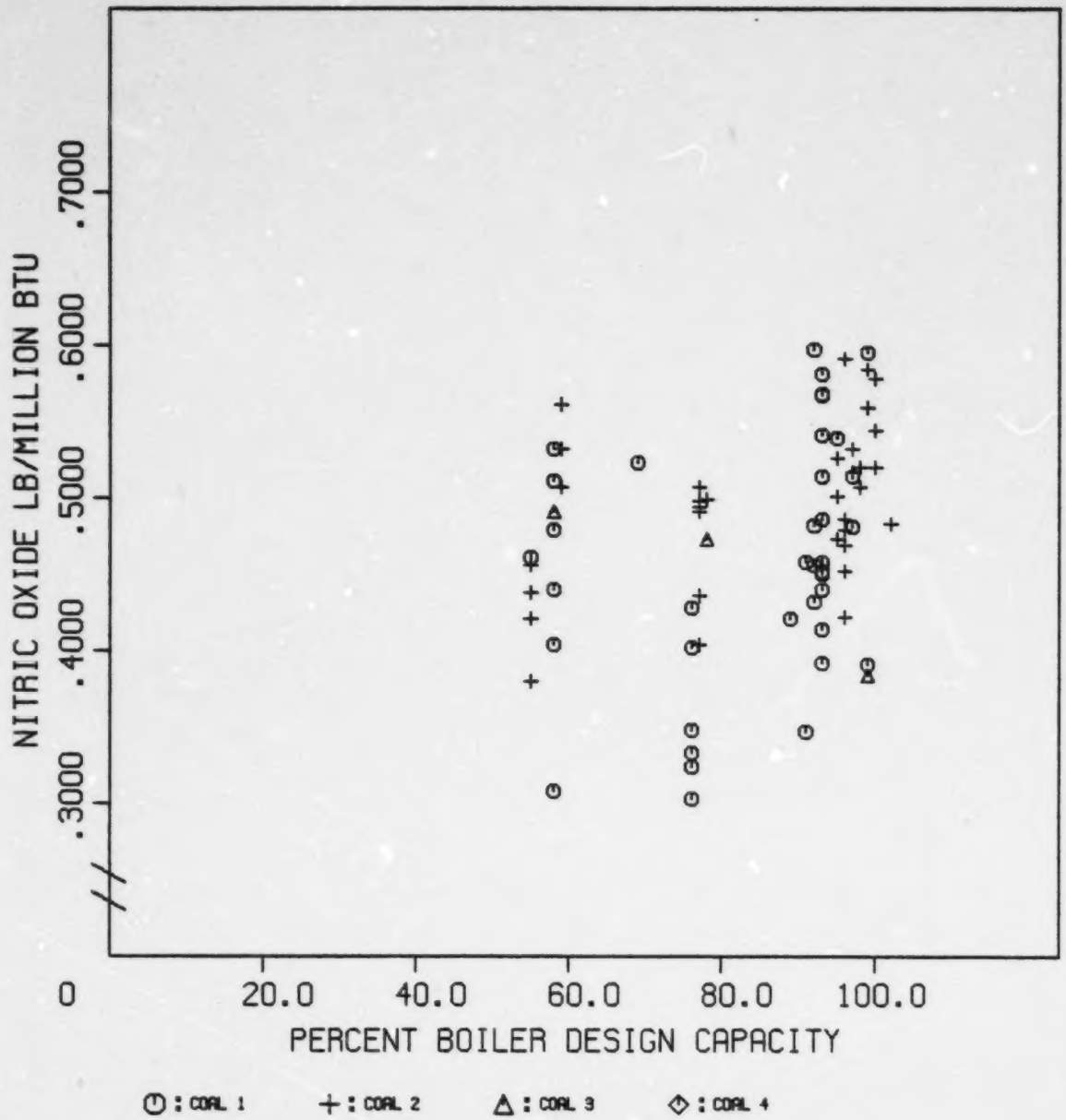


FIG. SITE C
NITRIC OXIDE VS. PERCENT BOILER DESIGN CAPACITY

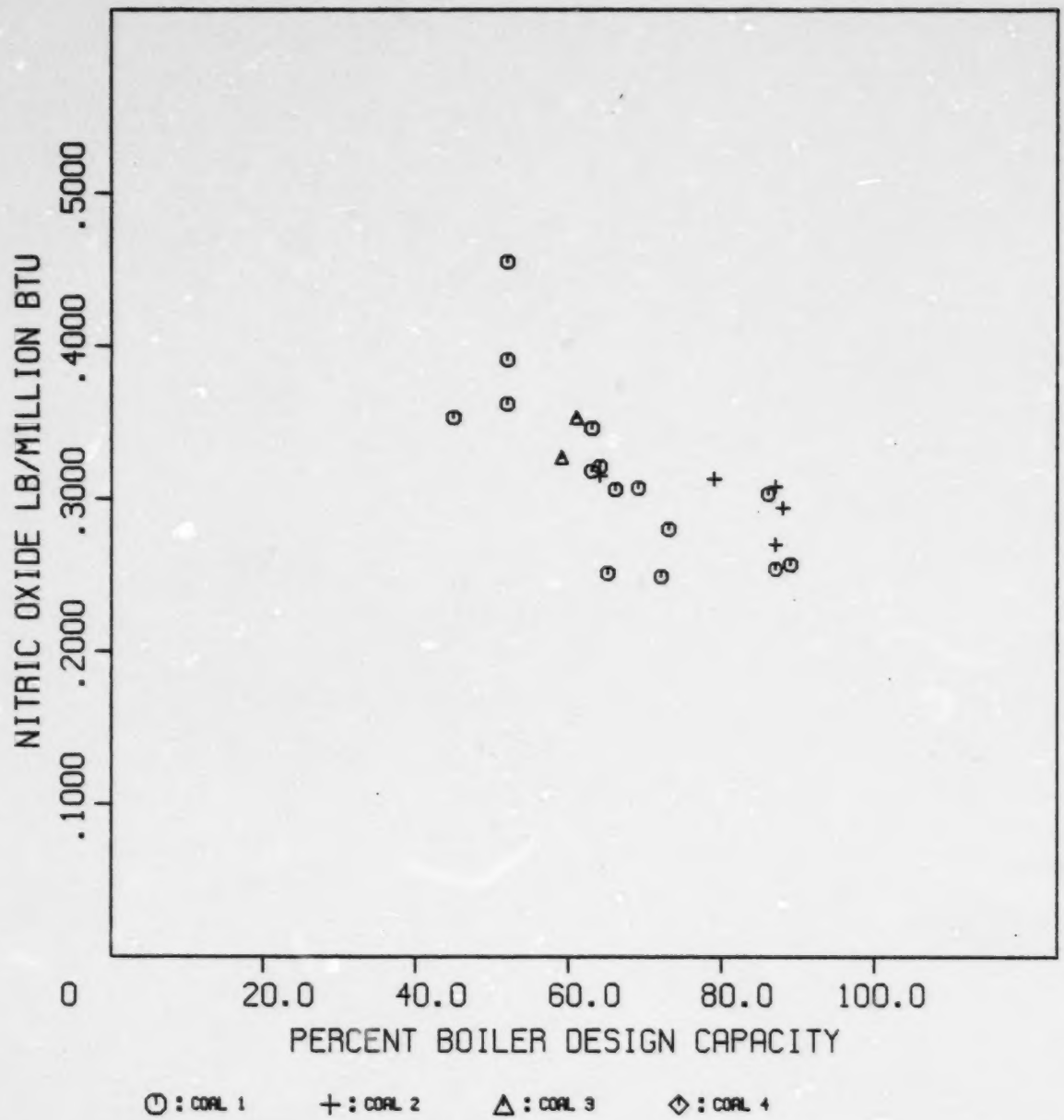


FIG. SITE D
NITRIC OXIDE VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

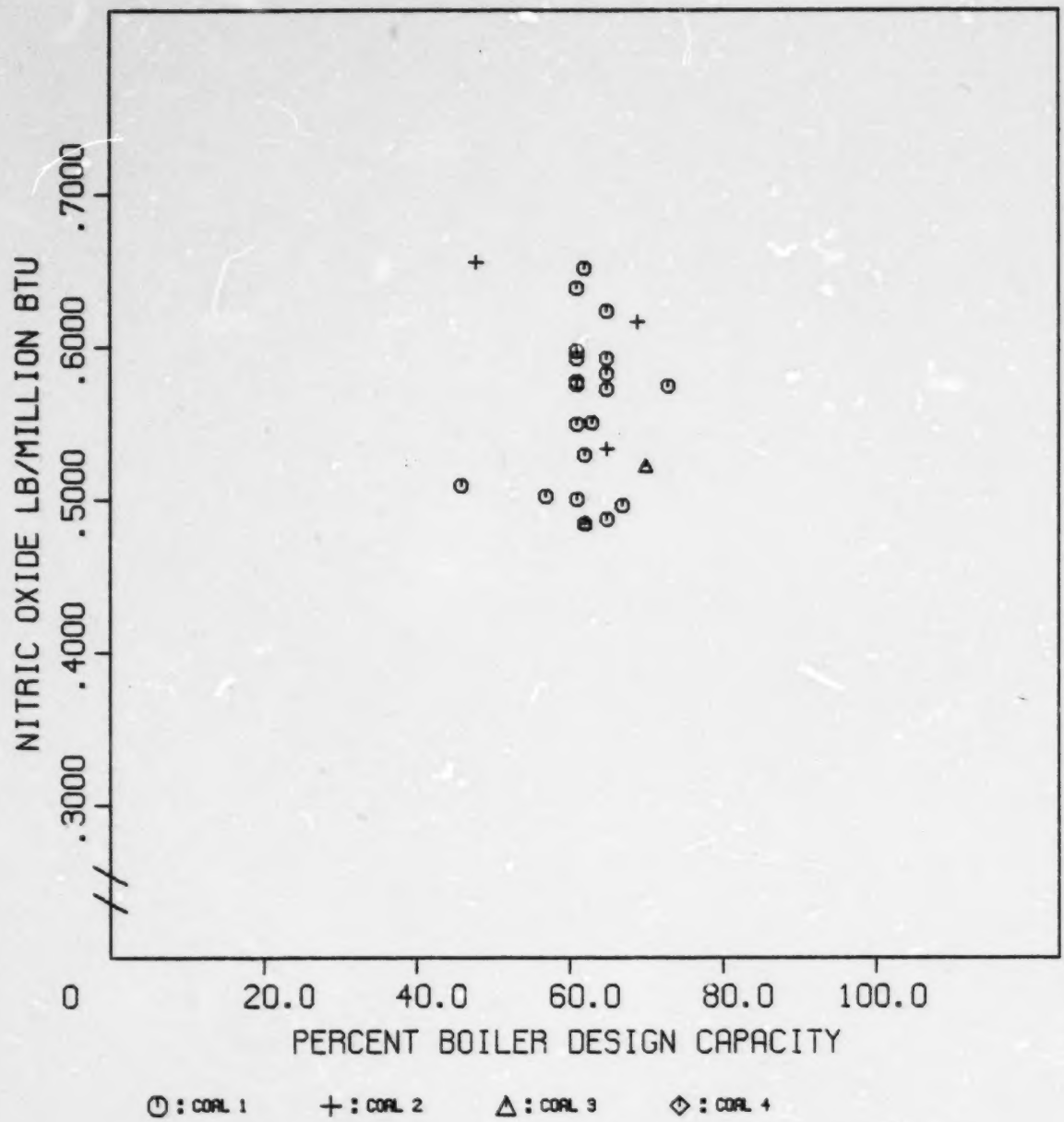


FIG. SITE E
NITRIC OXIDE VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

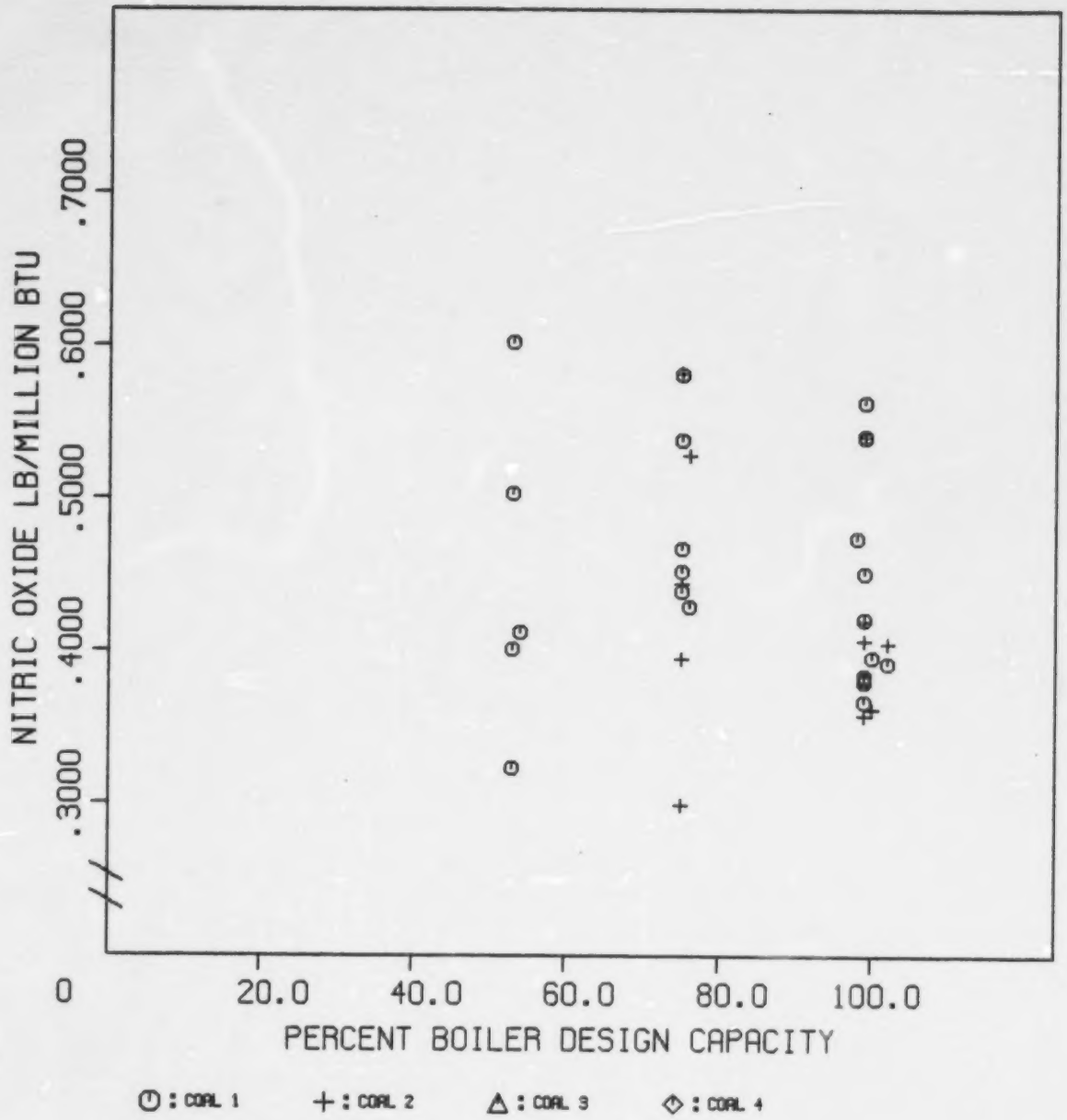


FIG. SITE F
NITRIC OXIDE VS. PERCENT BOILER DESIGN CAPACITY

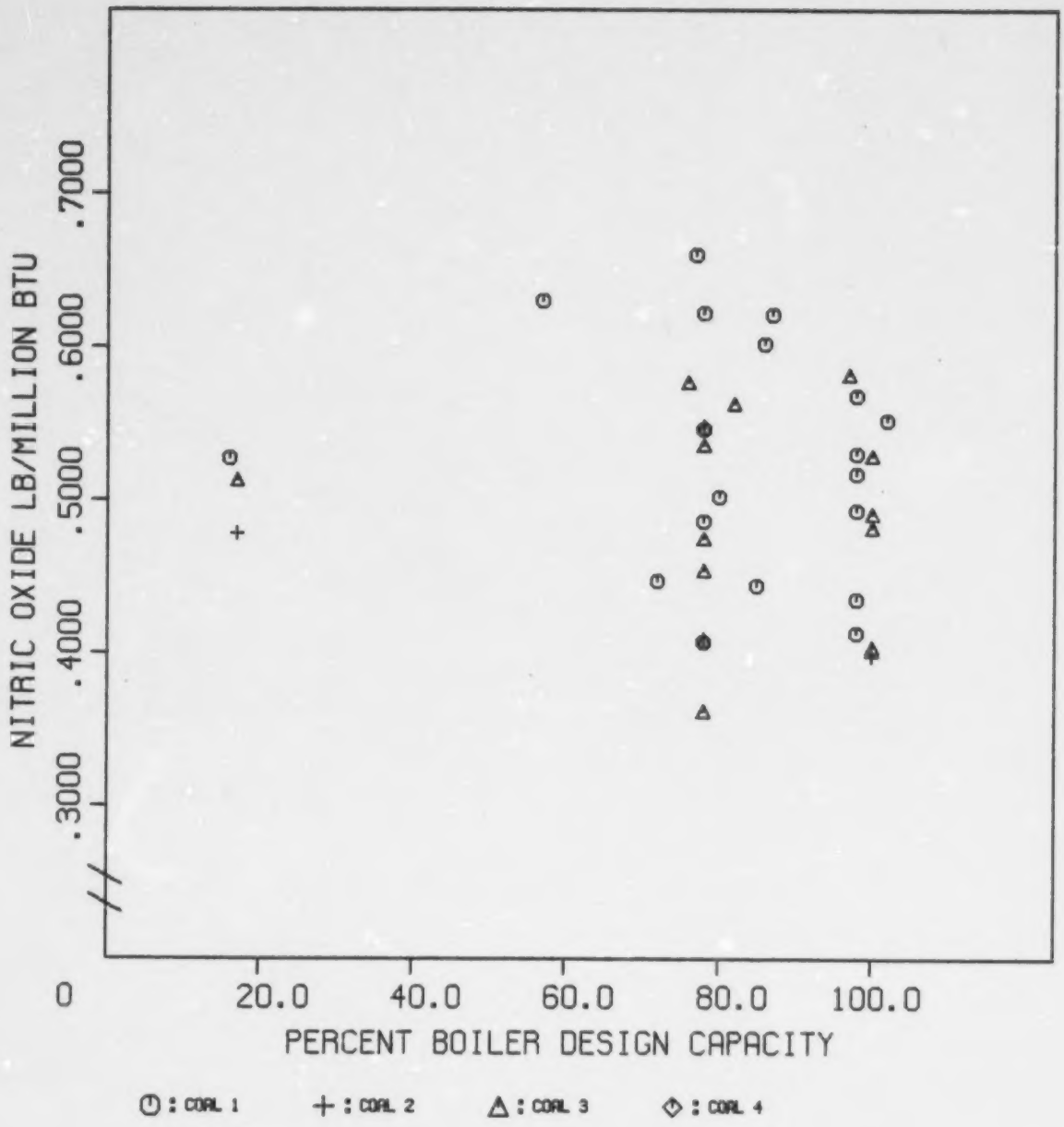


FIG. SITE G
NITRIC OXIDE VS. PERCENT BOILER DESIGN CAPACITY

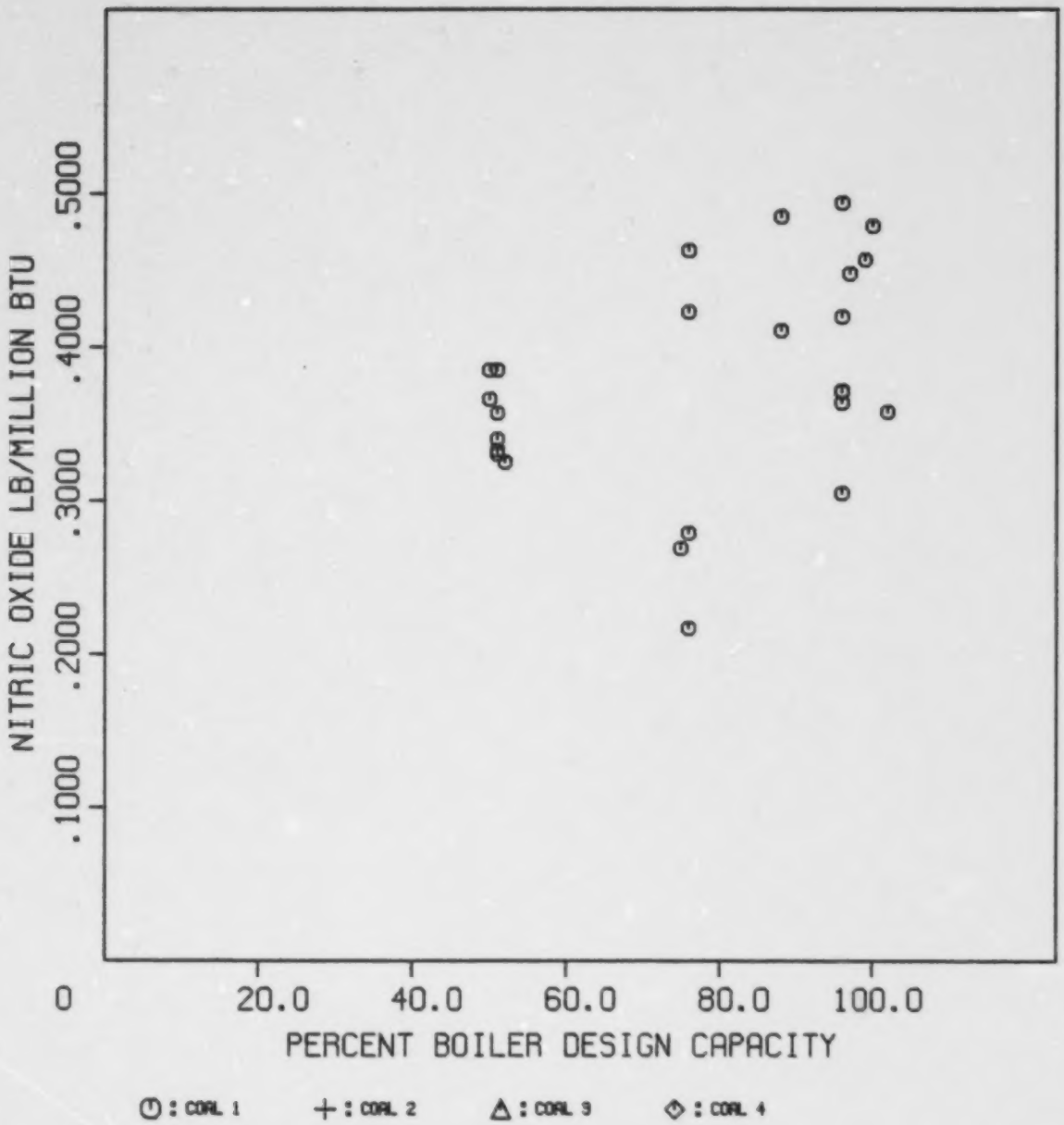


FIG. SITE H
NITRIC OXIDE VS. PERCENT BOILER DESIGN CAPACITY

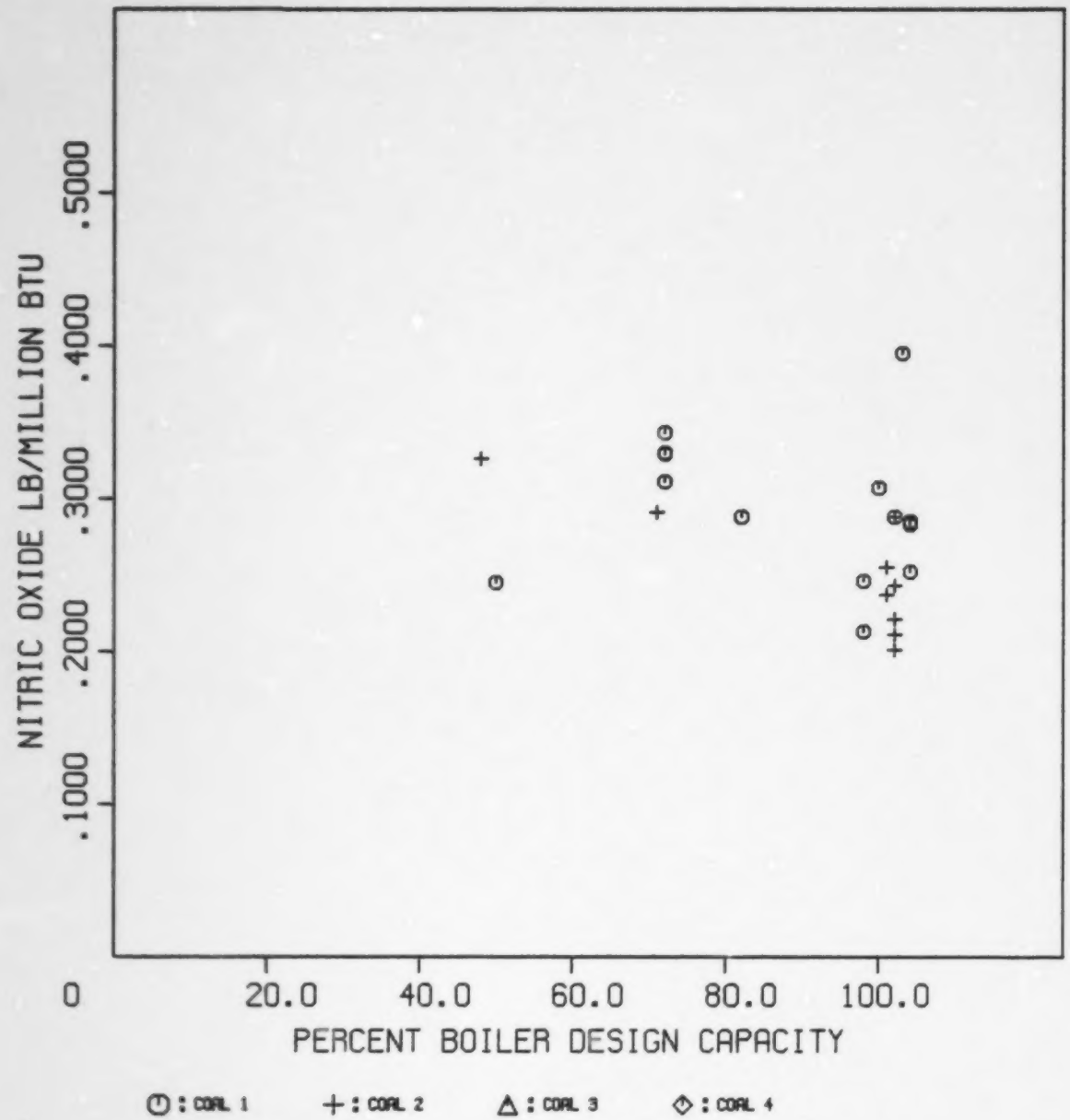


FIG. SITE I
NITRIC OXIDE VS. PERCENT BOILER DESIGN CAPACITY

KV84-15800-554

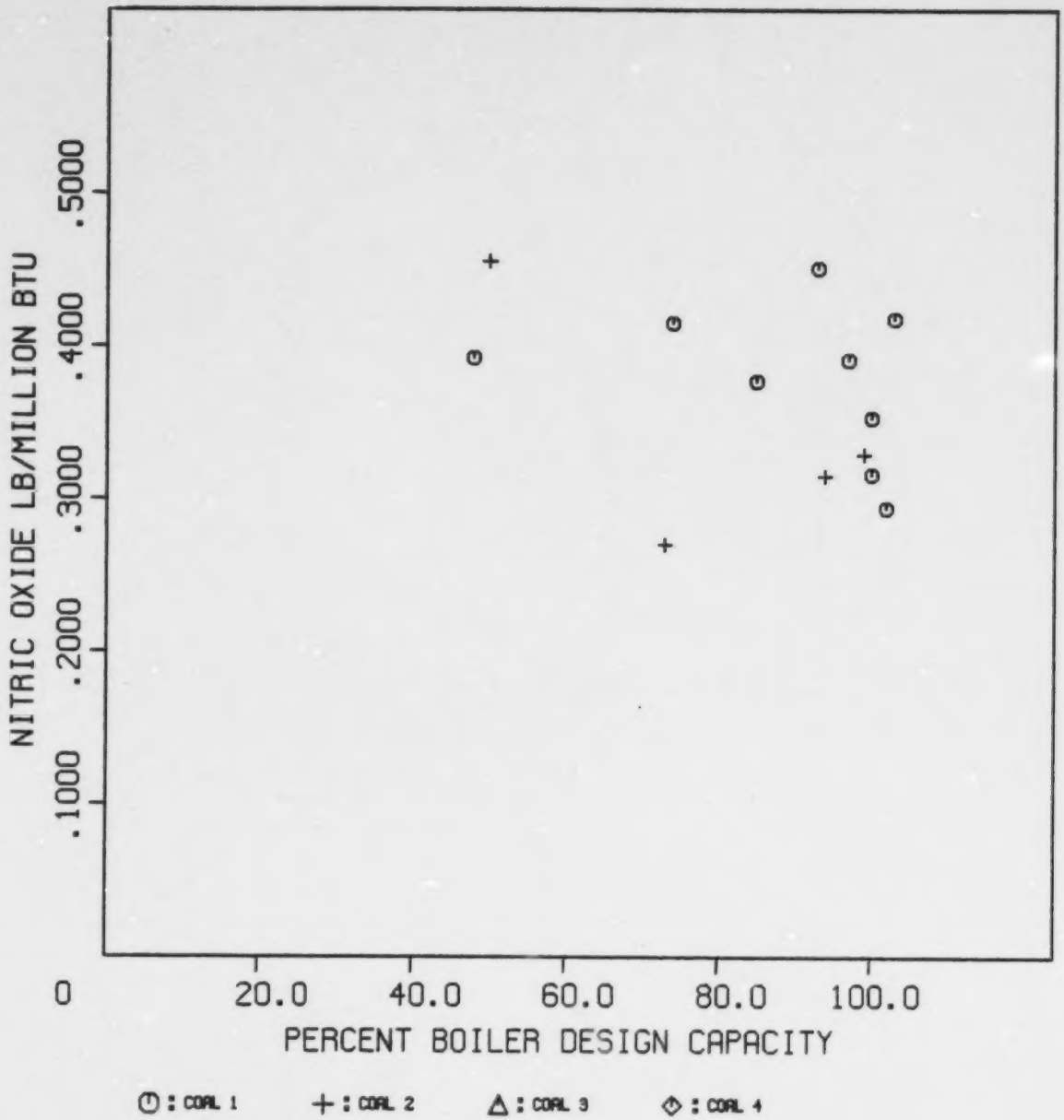


FIG. SITE J
NITRIC OXIDE VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15800-554

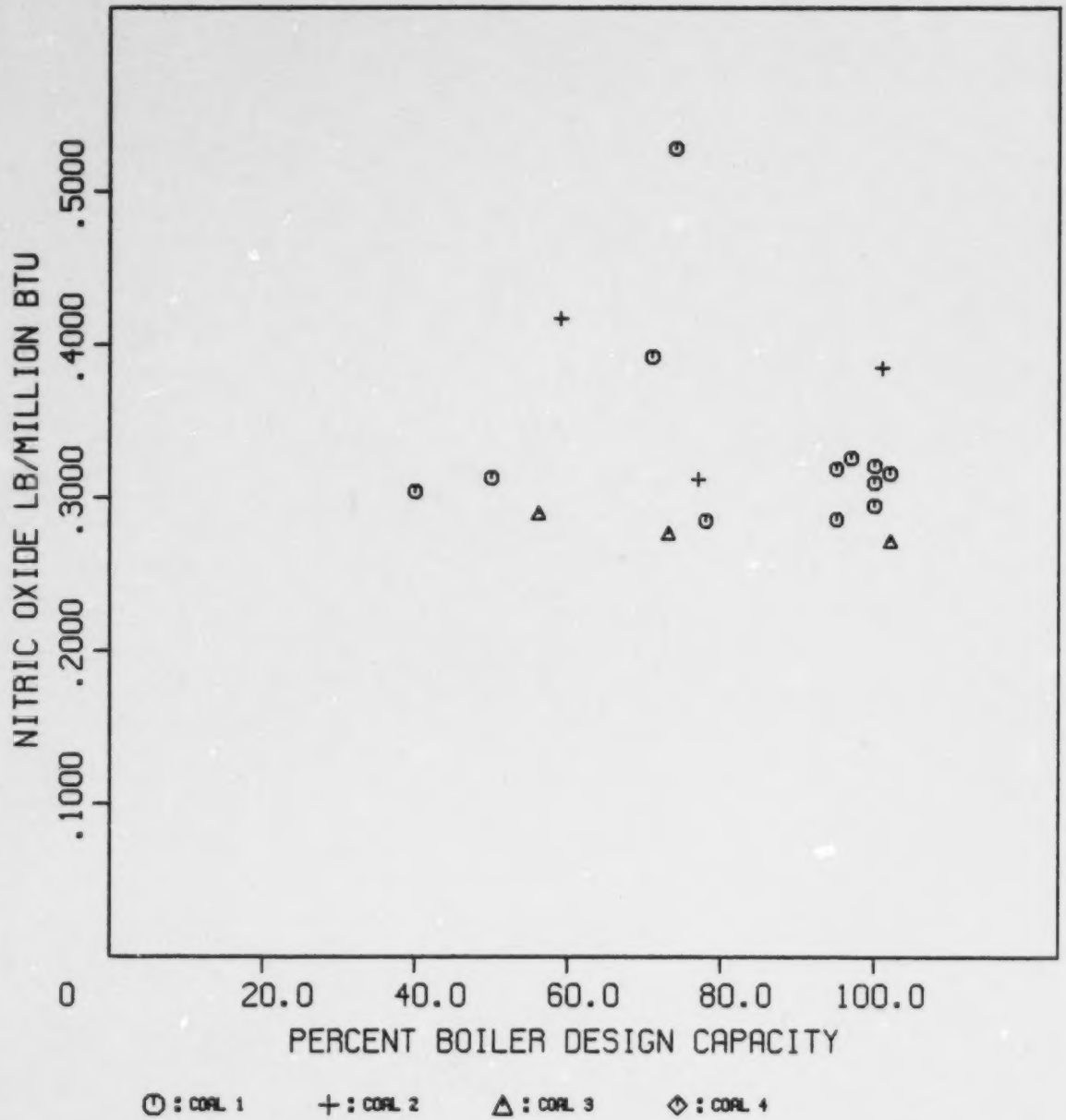


FIG. SITE K
NITRIC OXIDE VS. PERCENT BOILER DESIGN CAPACITY

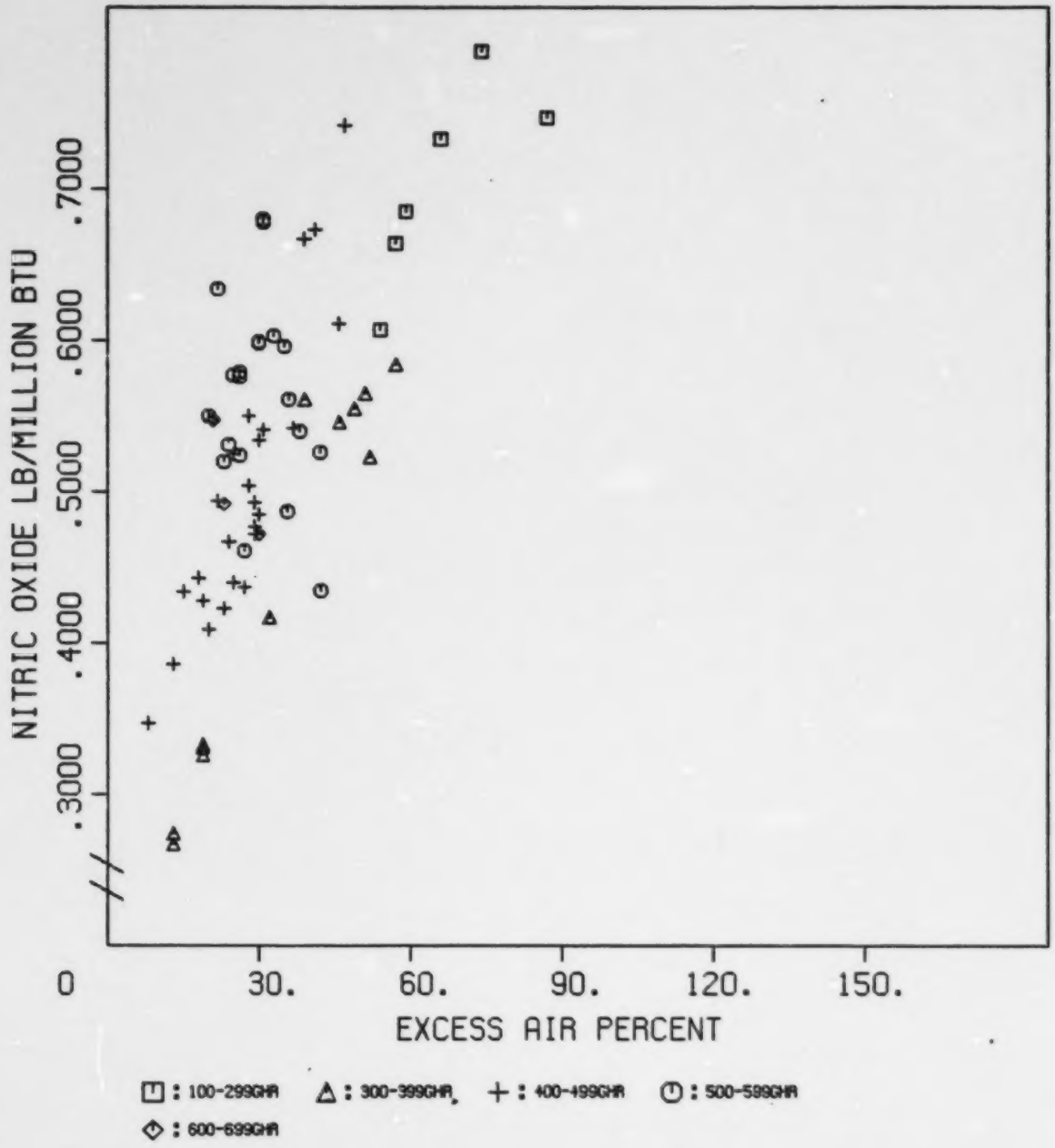


FIG. SITE A
NITRIC OXIDE VS. EXCESS AIR

KVB4-15900-554

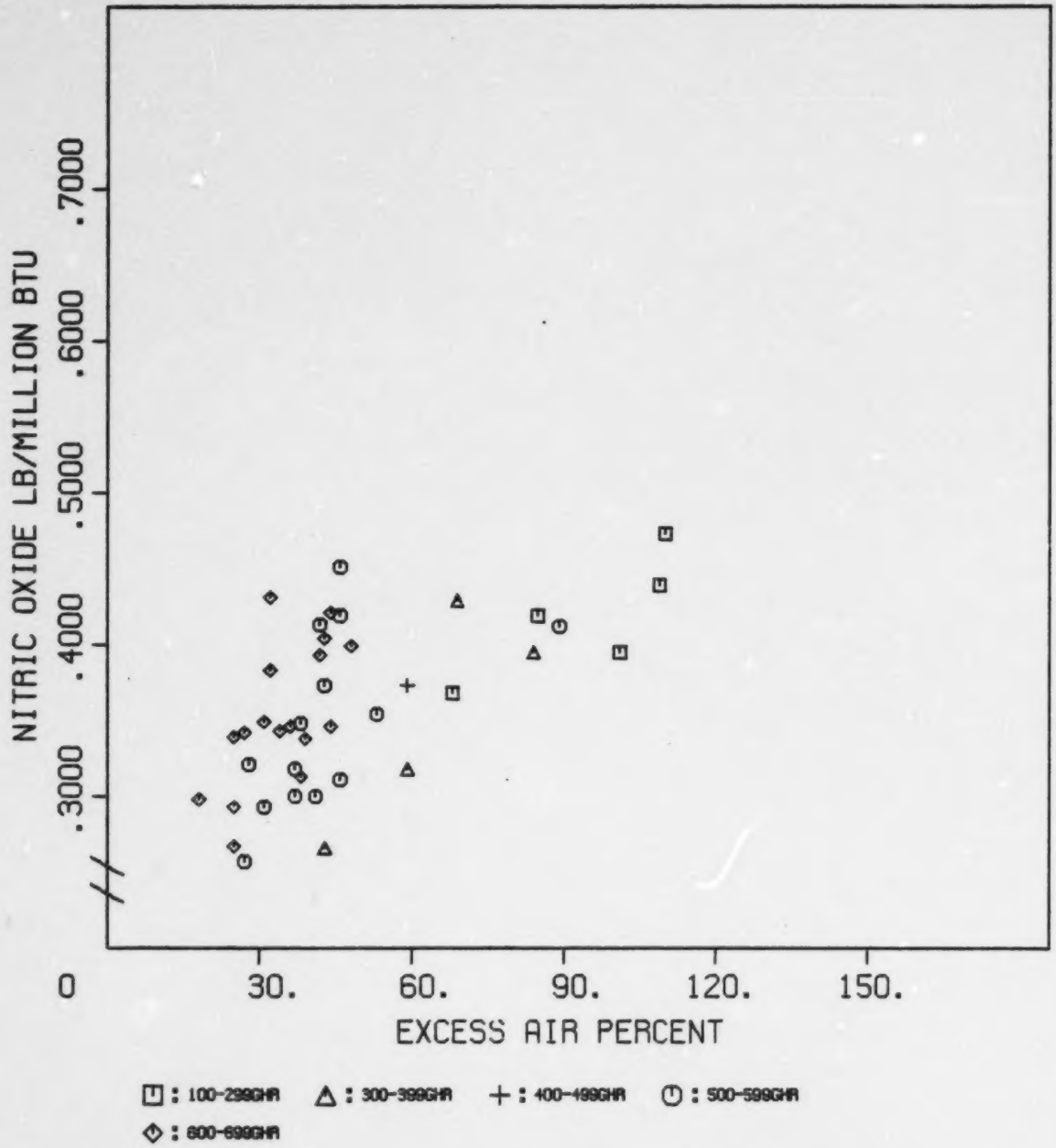


FIG. SITE B
NITRIC OXIDE VS. EXCESS AIR

KYB4-15900-554

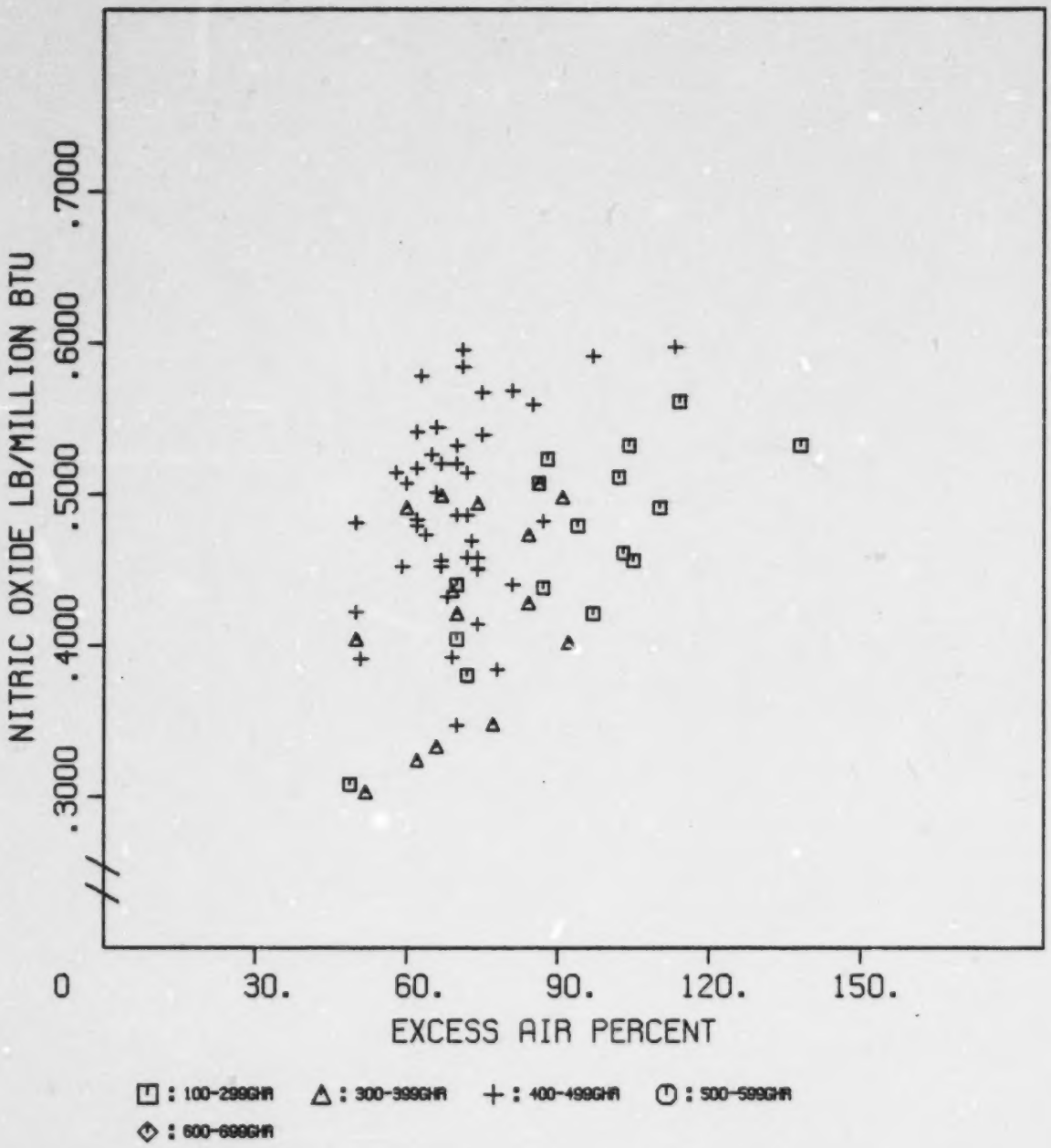


FIG. SITE C
NITRIC OXIDE VS. EXCESS AIR

KVB4-15800-554

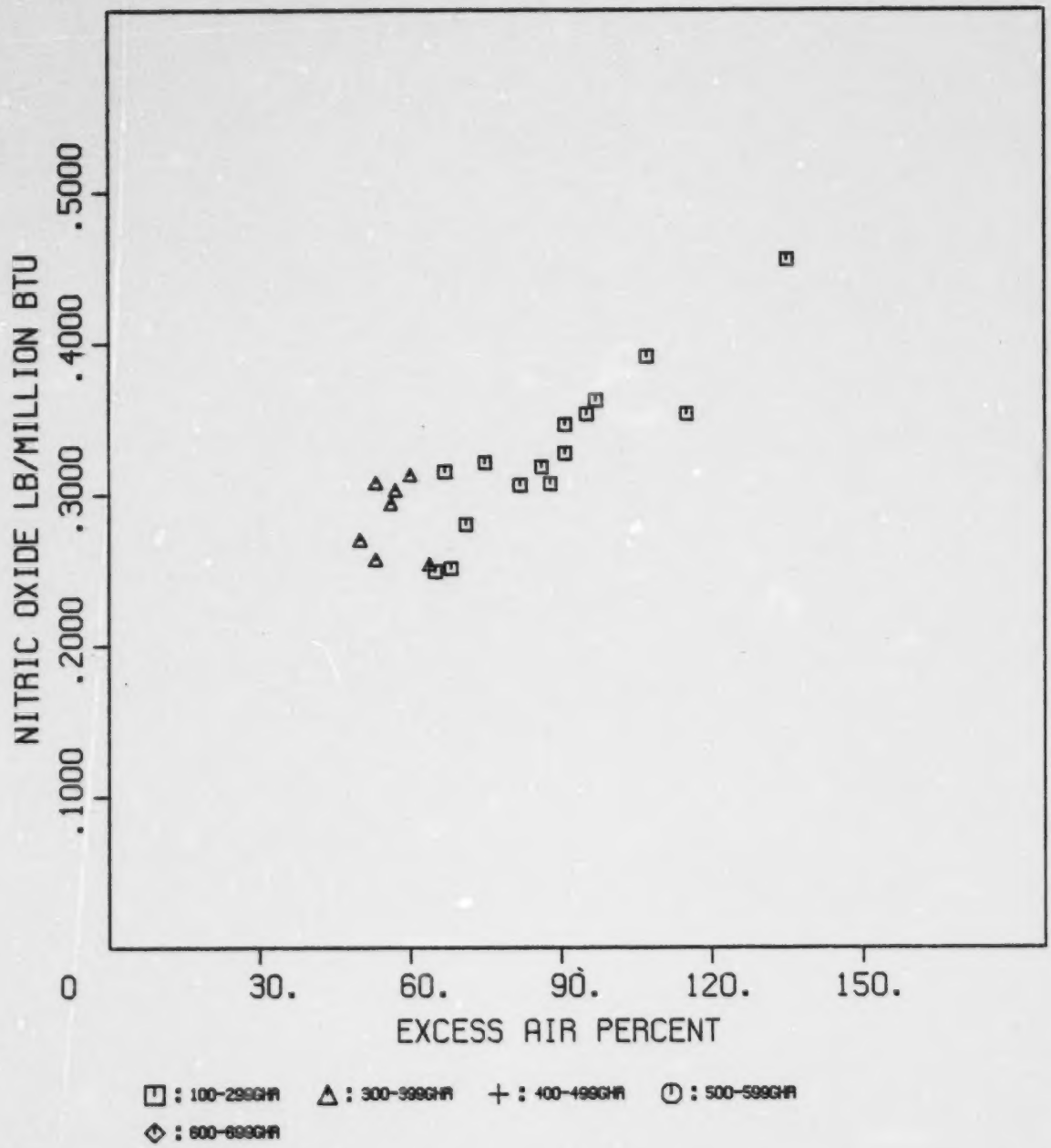


FIG. SITE D
NITRIC OXIDE VS. EXCESS AIR

KVB4-15900-554

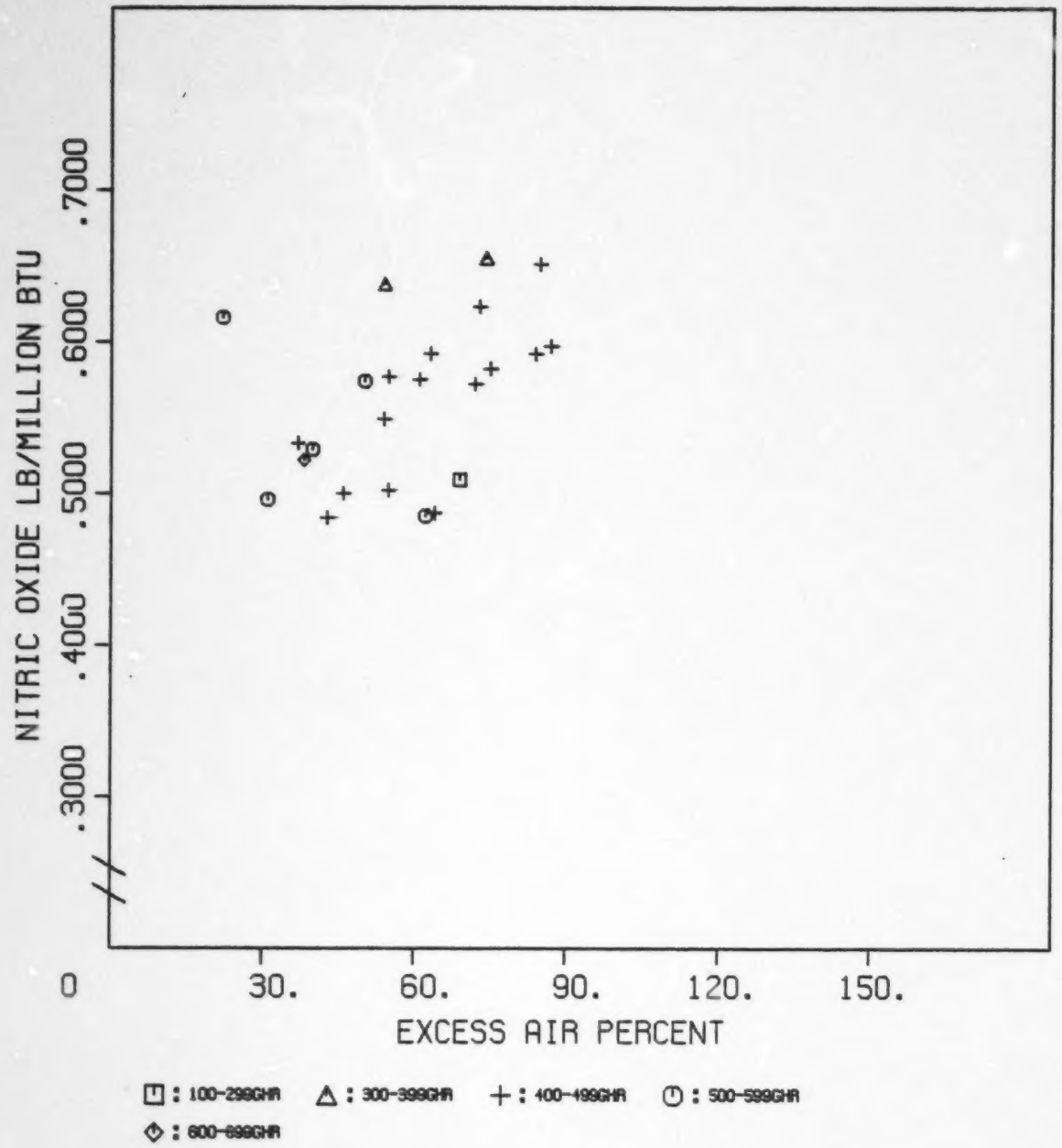


FIG. SITE E
NITRIC OXIDE VS. EXCESS AIR

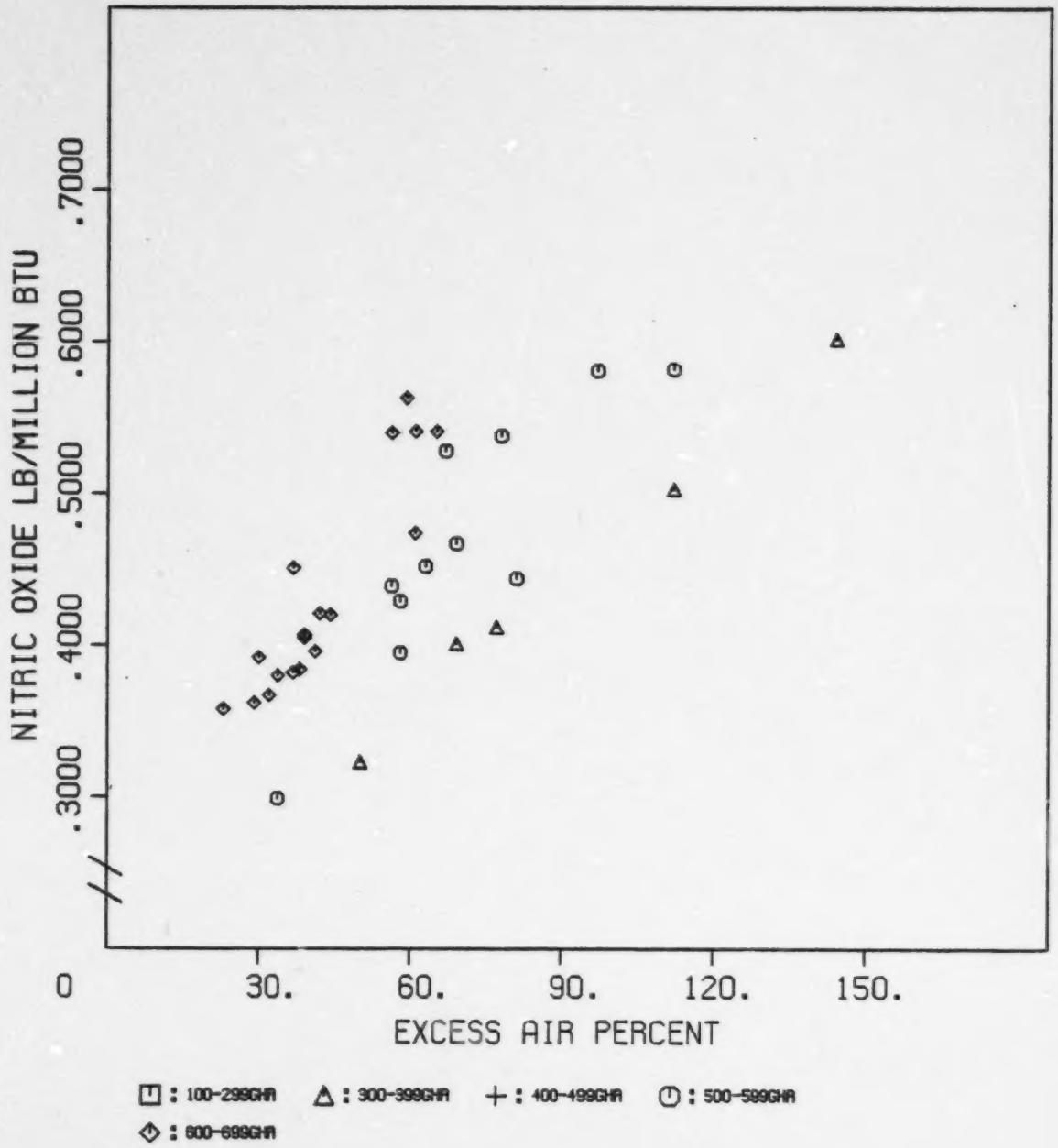


FIG. SITE F
NITRIC OXIDE VS. EXCESS AIR

KVB4-15900-554

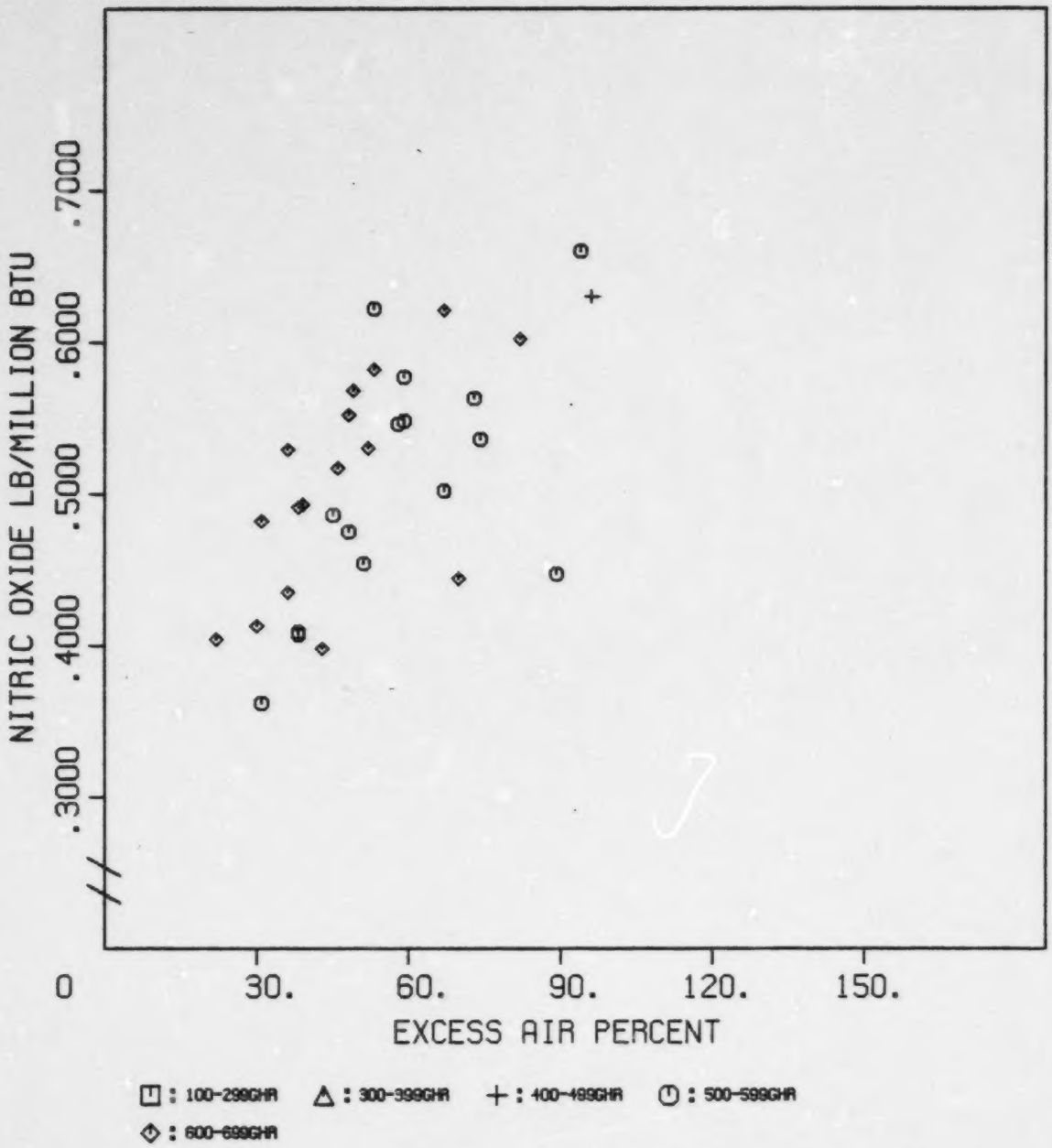


FIG. SITE G
NITRIC OXIDE VS. EXCESS AIR

KVB4-15900-554

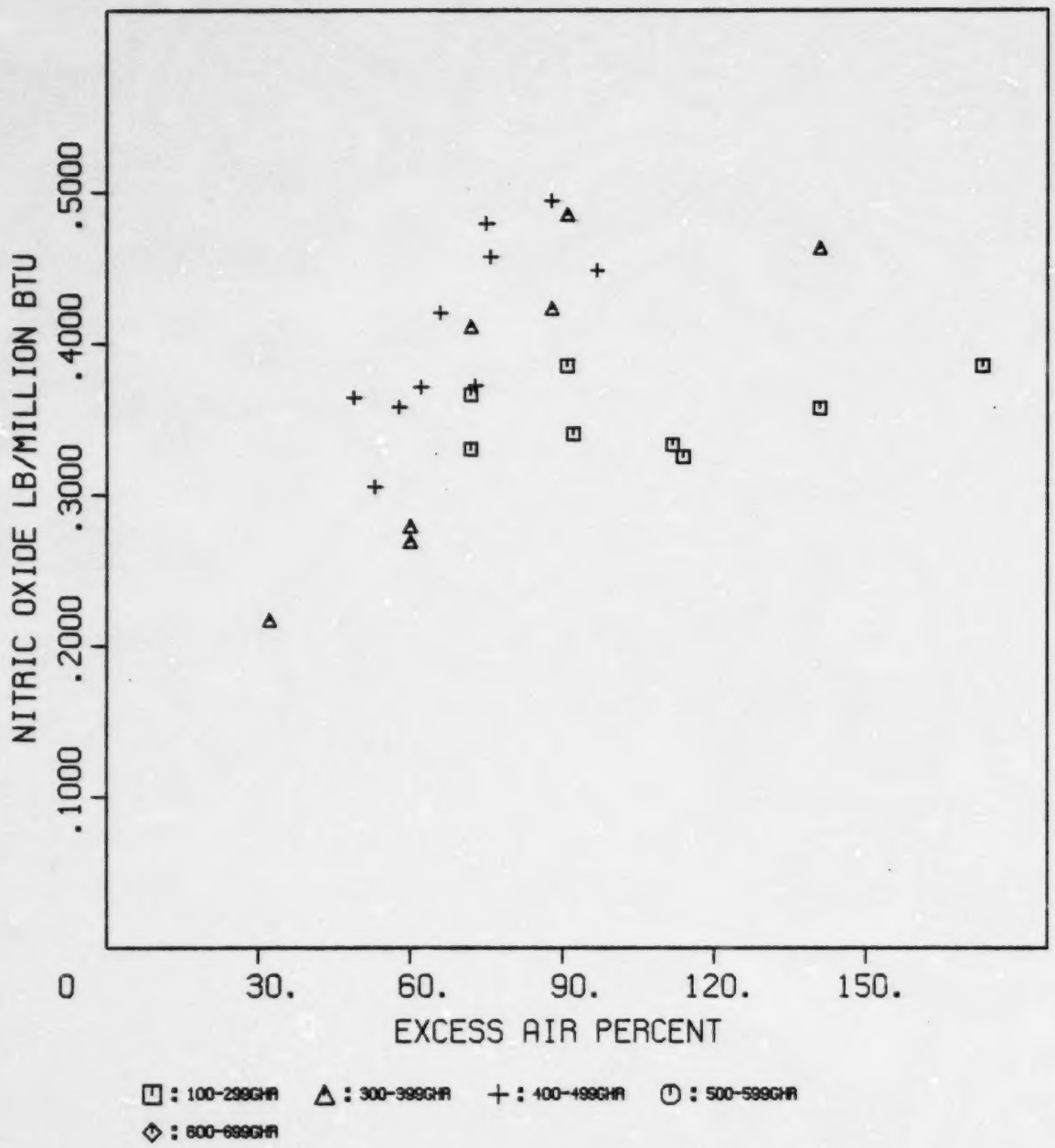


FIG. SITE H
NITRIC OXIDE VS. EXCESS AIR

KYB4-15900-554

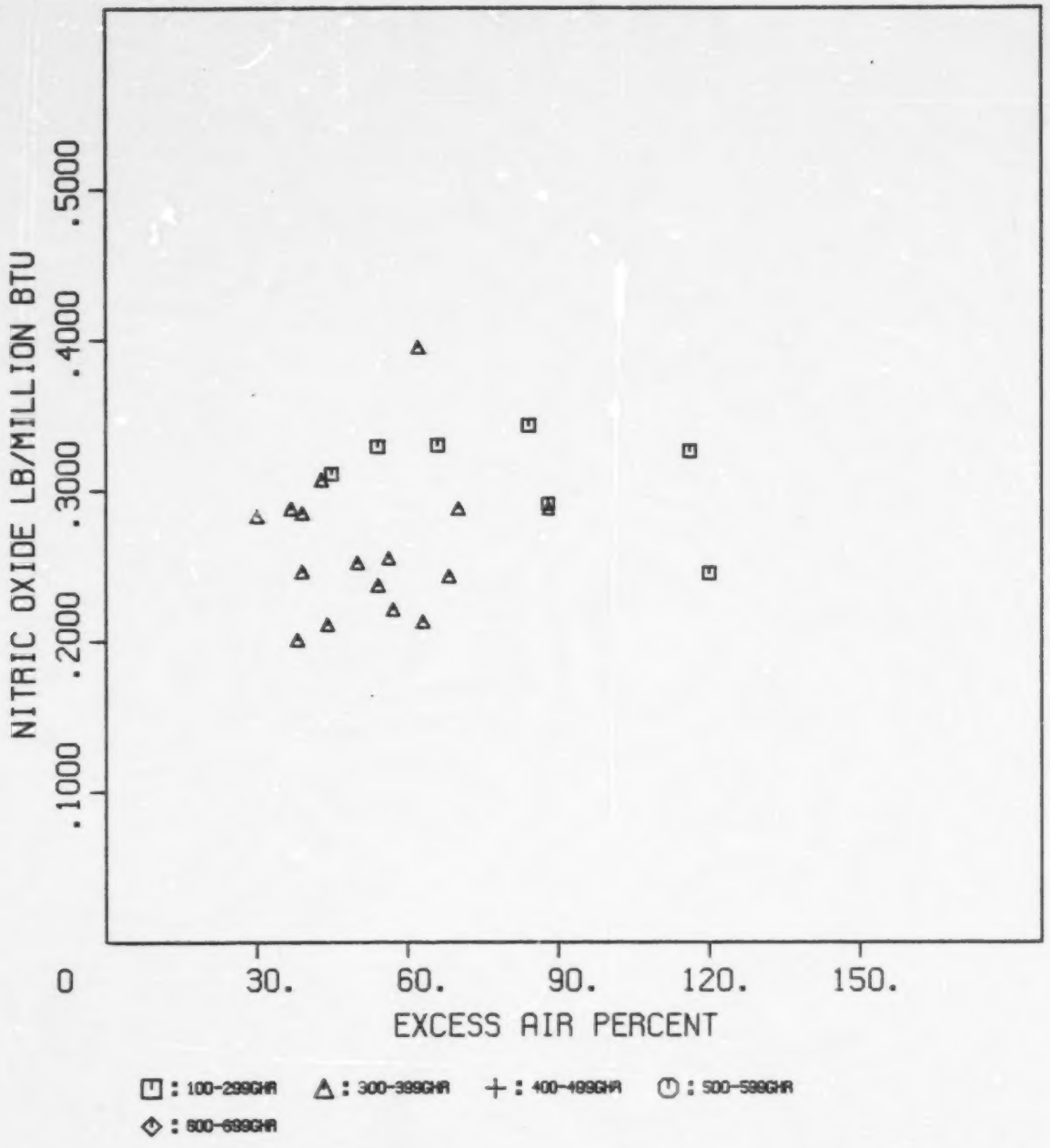


FIG. SITE I
NITRIC OXIDE VS. EXCESS AIR

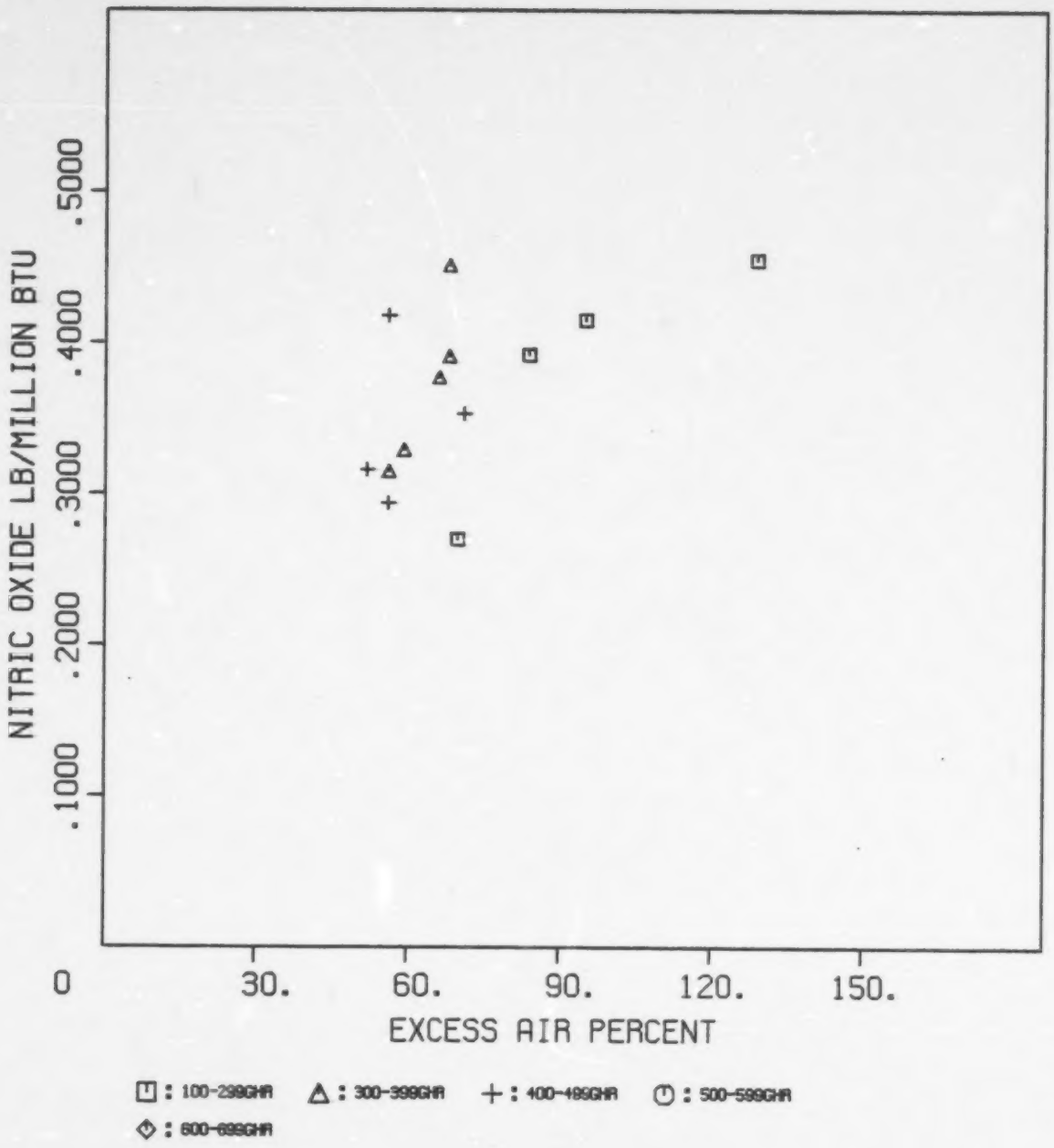


FIG. SITE J
NITRIC OXIDE VS. EXCESS AIR

KVB4-15800-554

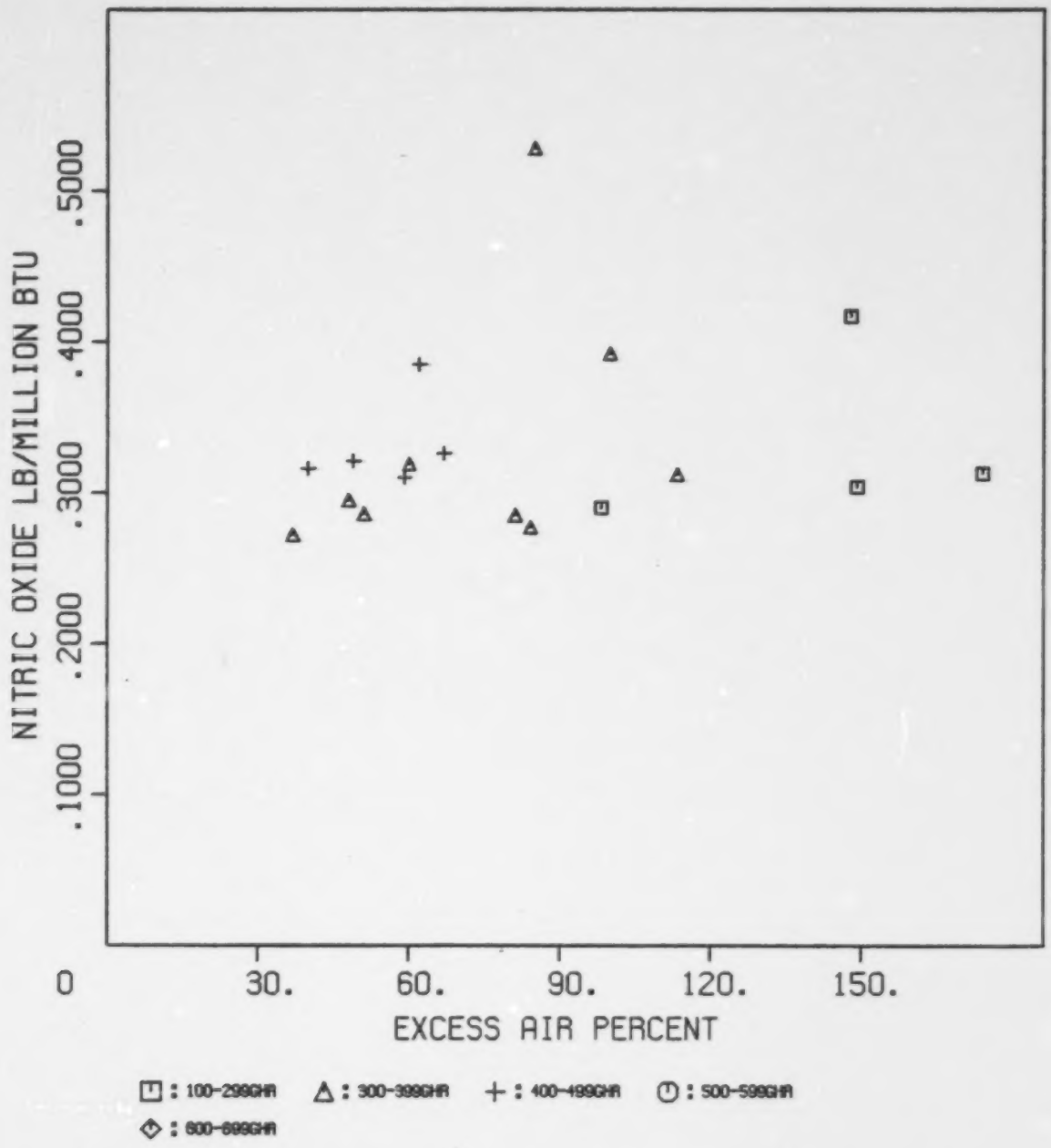


FIG. SITE K
NITRIC OXIDE VS. EXCESS AIR

KVB4-15900-554

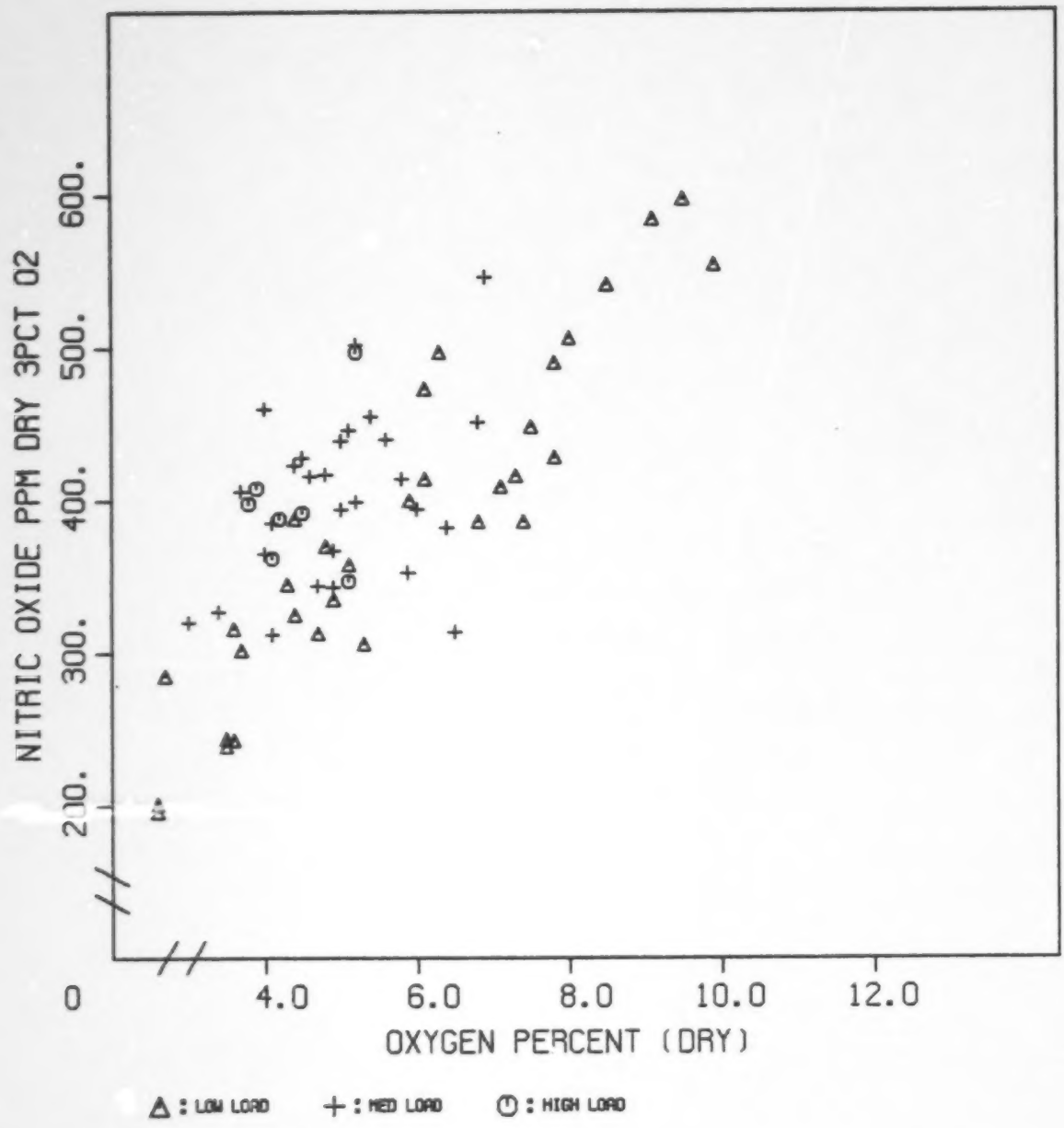


FIG. SITE A
NITRIC OXIDE VS. OXYGEN

KVB4-15800-554

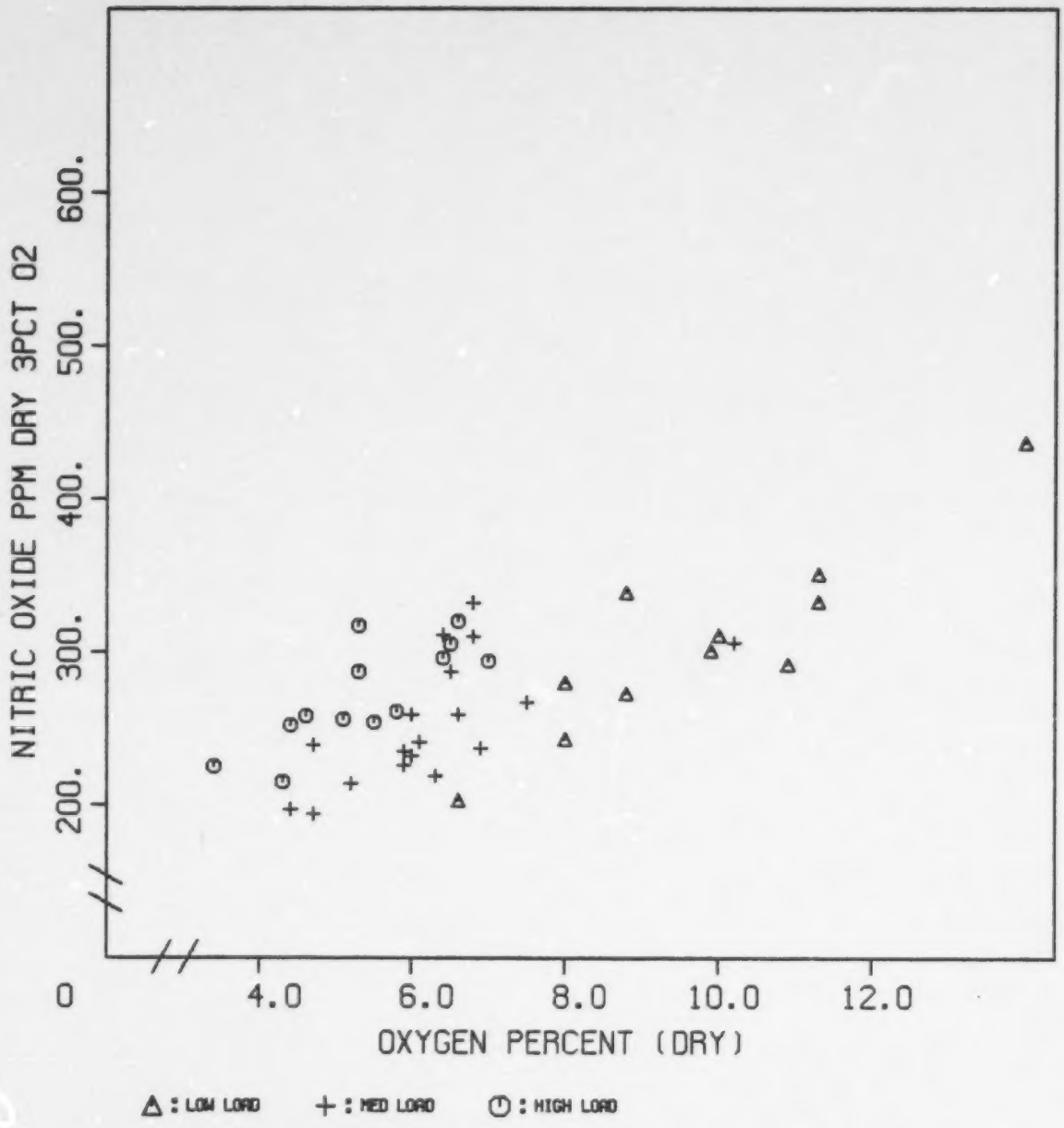


FIG. SITE B
NITRIC OXIDE VS. OXYGEN

KVB4-15900-554

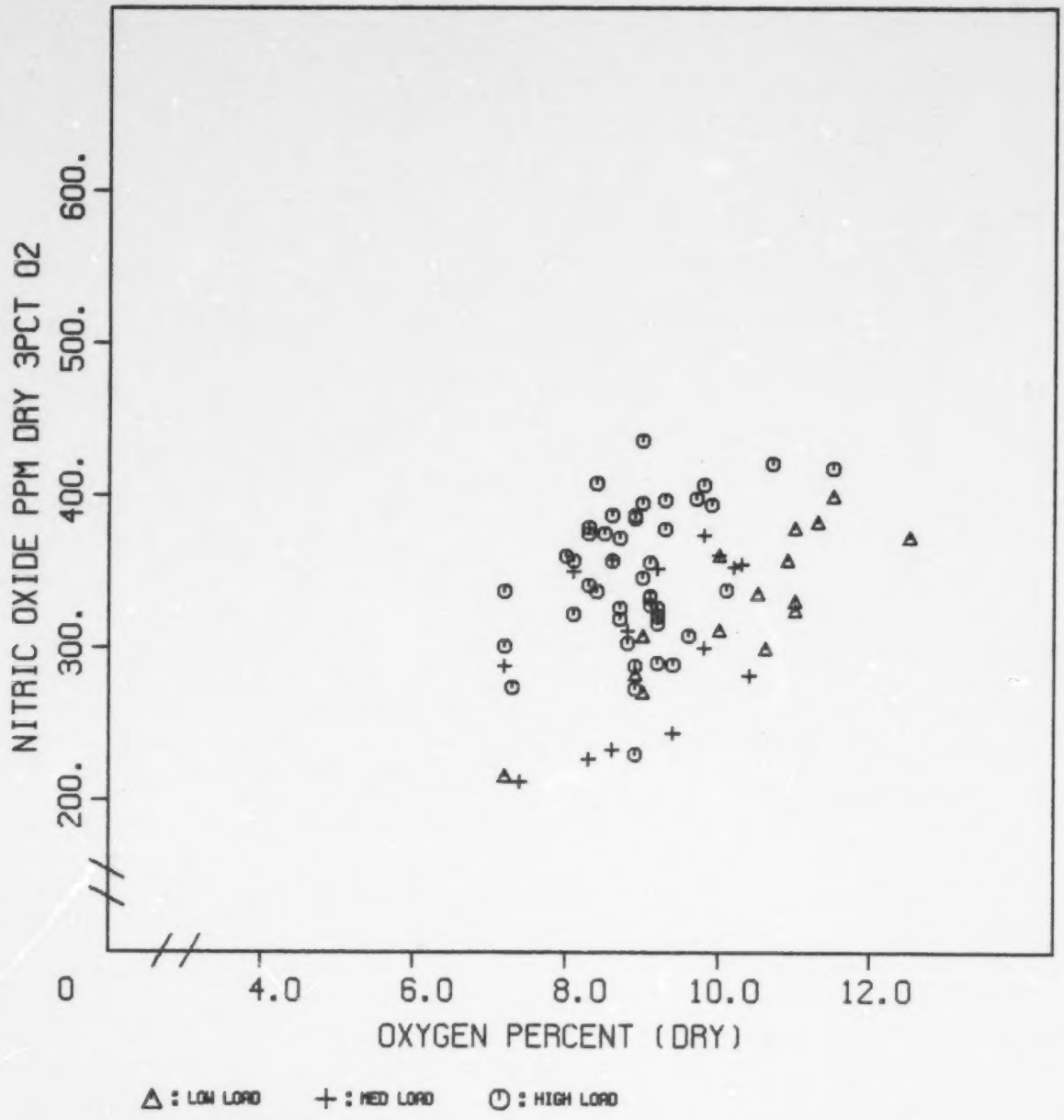


FIG. SITE C
NITRIC OXIDE VS. OXYGEN

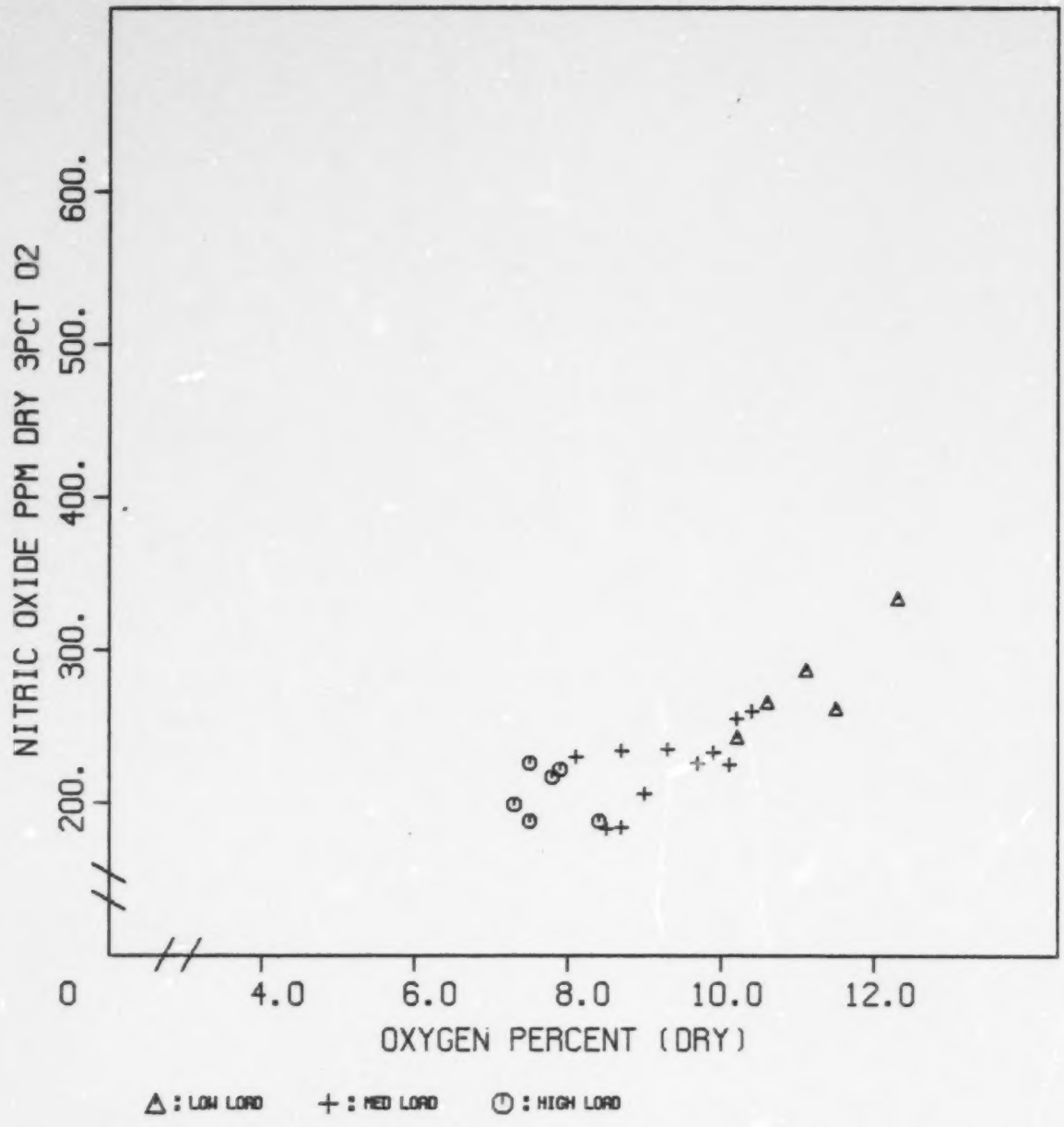


FIG. SITE D
NITRIC OXIDE VS. OXYGEN

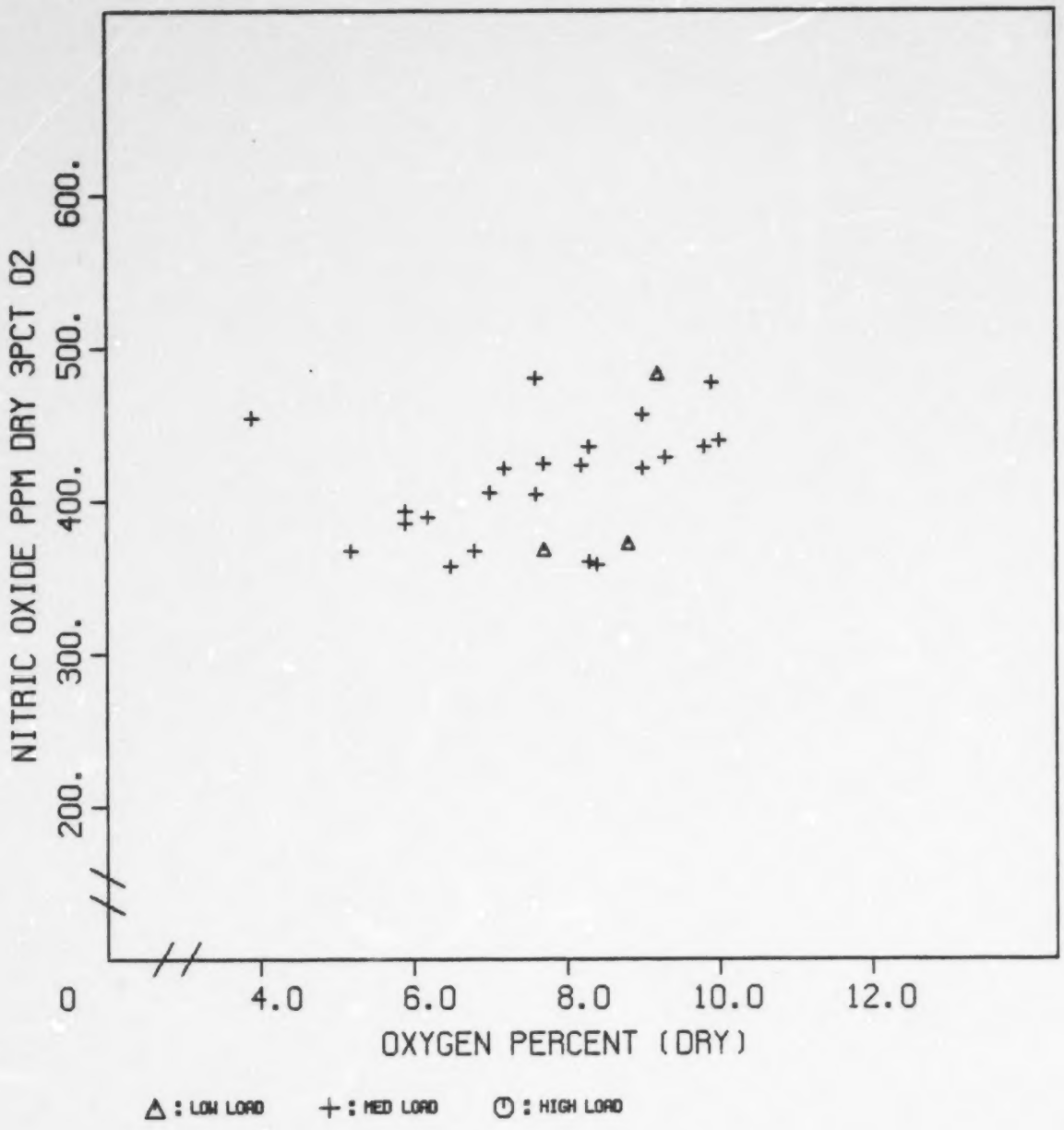


FIG. SITE E
NITRIC OXIDE VS. OXYGEN

KVB4-15900-554

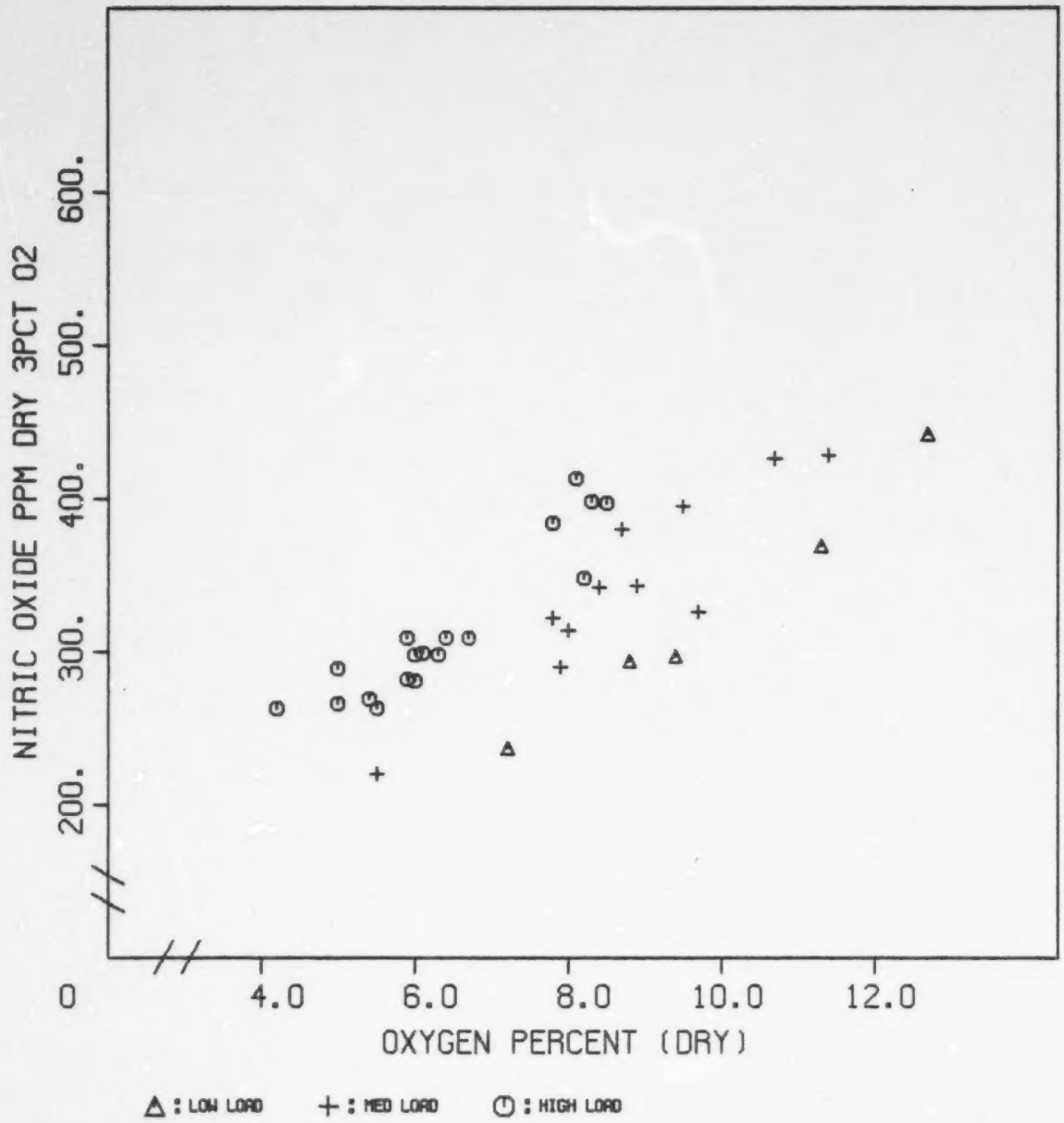


FIG. SITE F
NITRIC OXIDE VS. OXYGEN

KVB4-15800-554

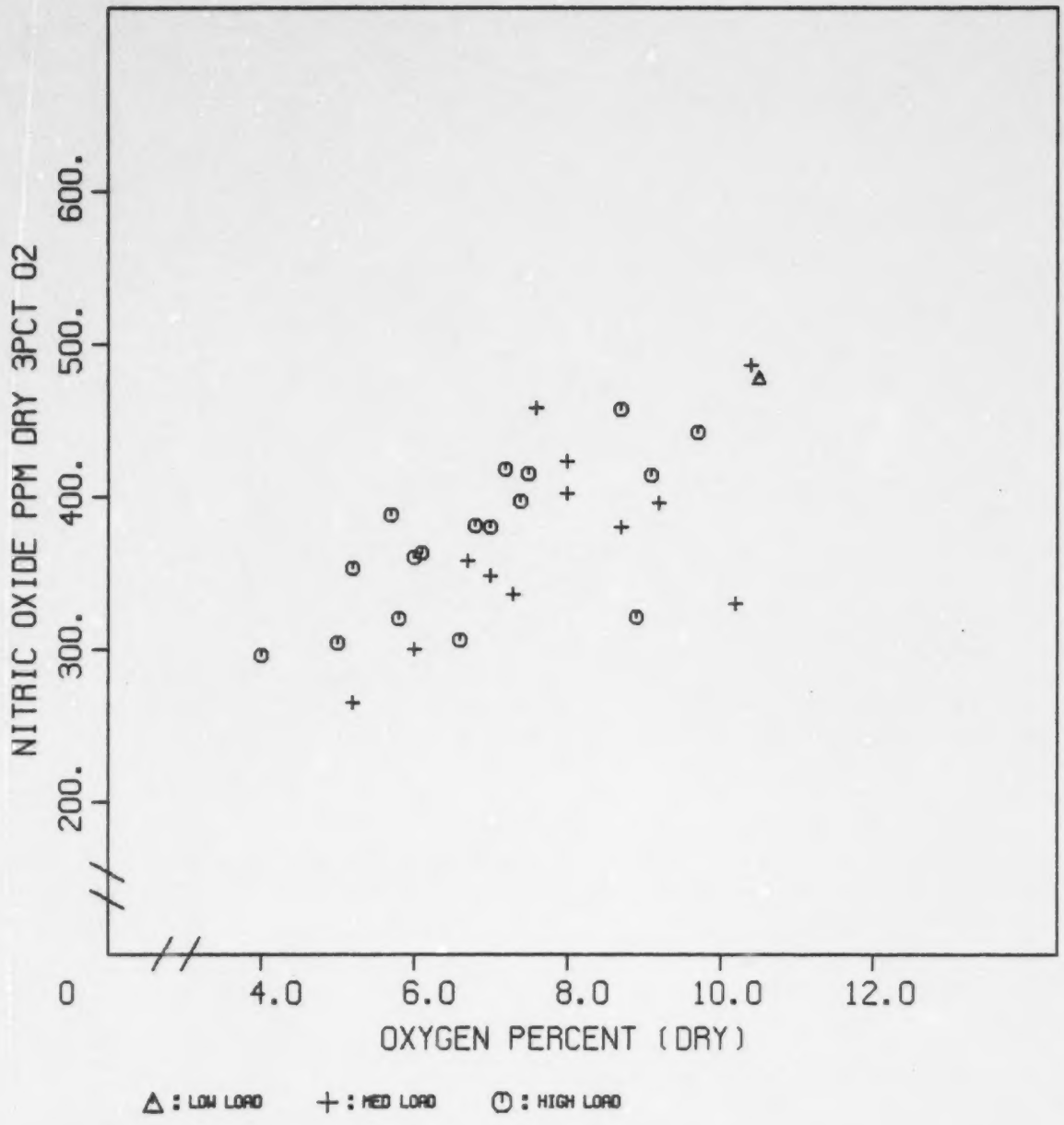


FIG. SITE G
NITRIC OXIDE VS. OXYGEN

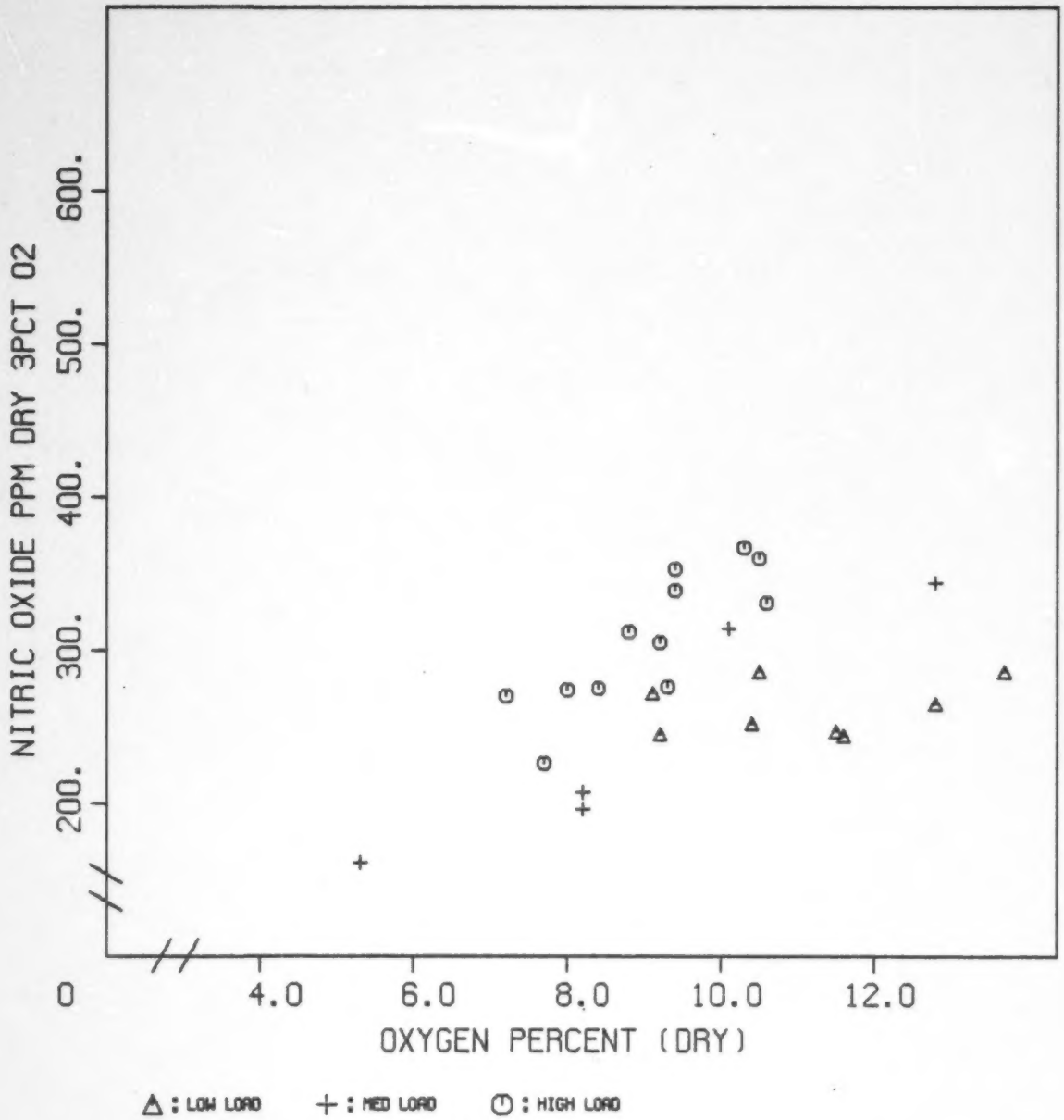


FIG. SITE H
NITRIC OXIDE VS. OXYGEN

KVB4-15800-554

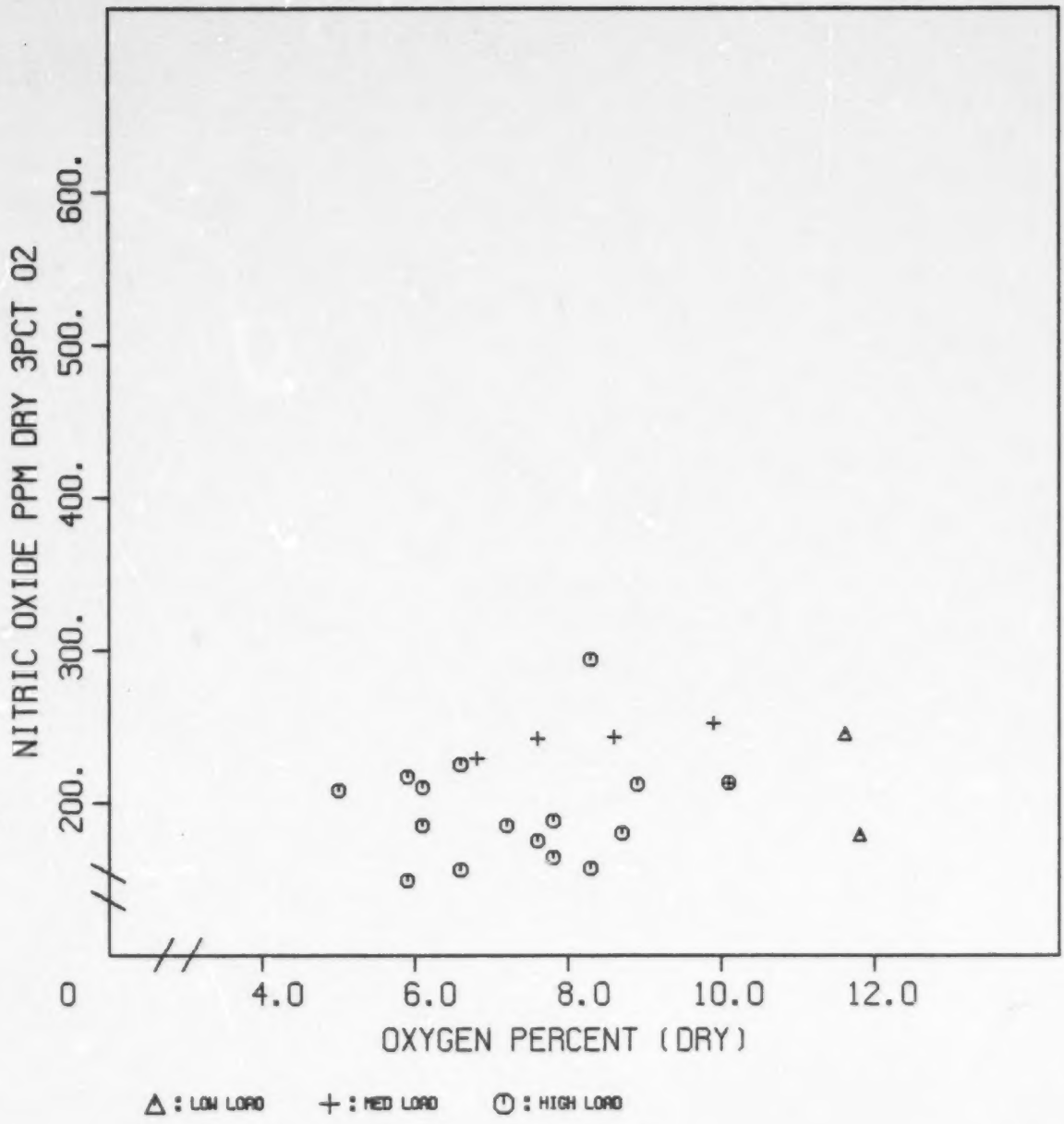


FIG. SITE I
NITRIC OXIDE VS. OXYGEN

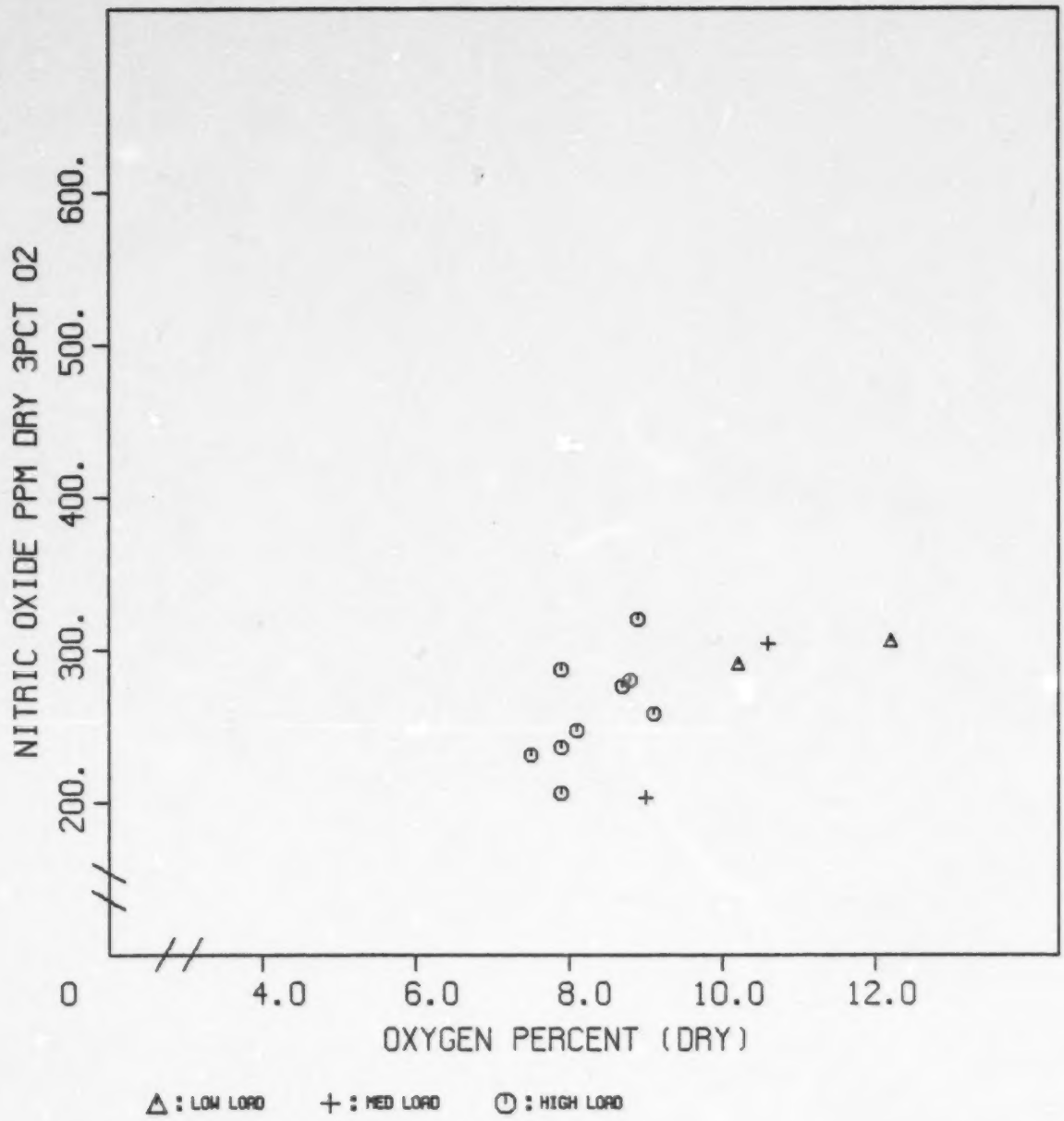


FIG. SITE J
NITRIC OXIDE VS. OXYGEN

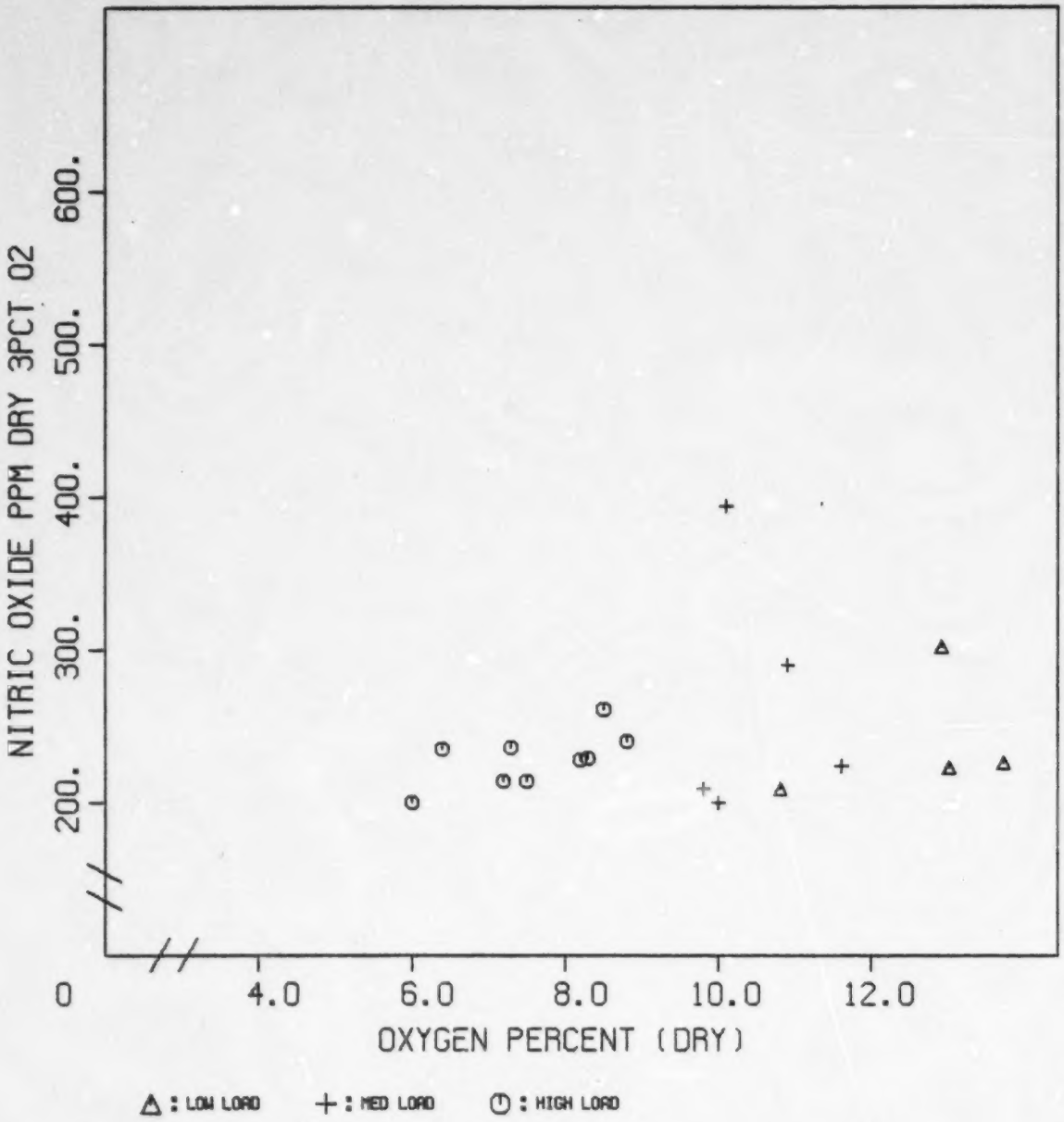


FIG. SITE K
NITRIC OXIDE VS. OXYGEN

KVB4-15900-554

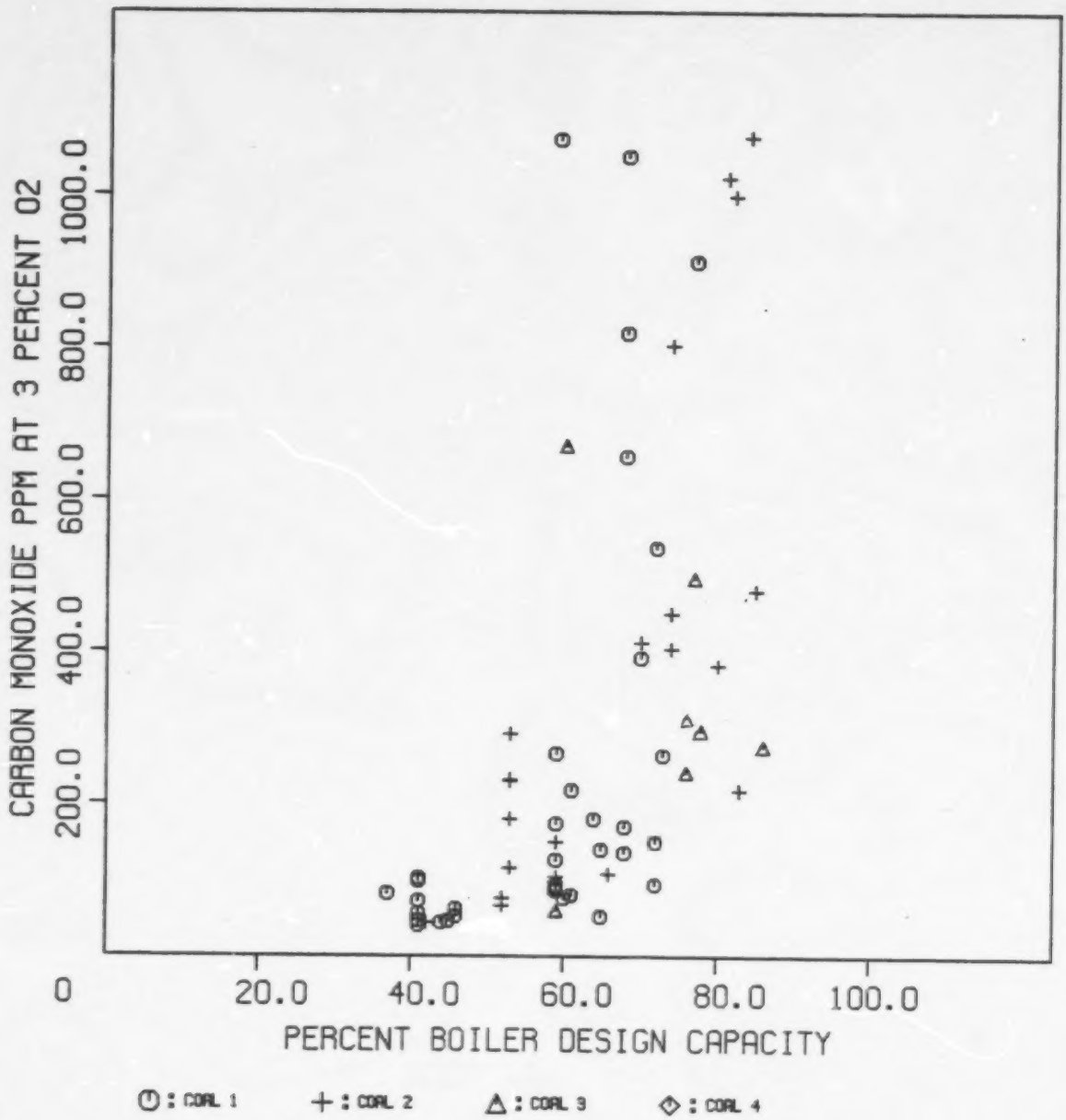


FIG. SITE A

CARBON MONOXIDE VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-S54

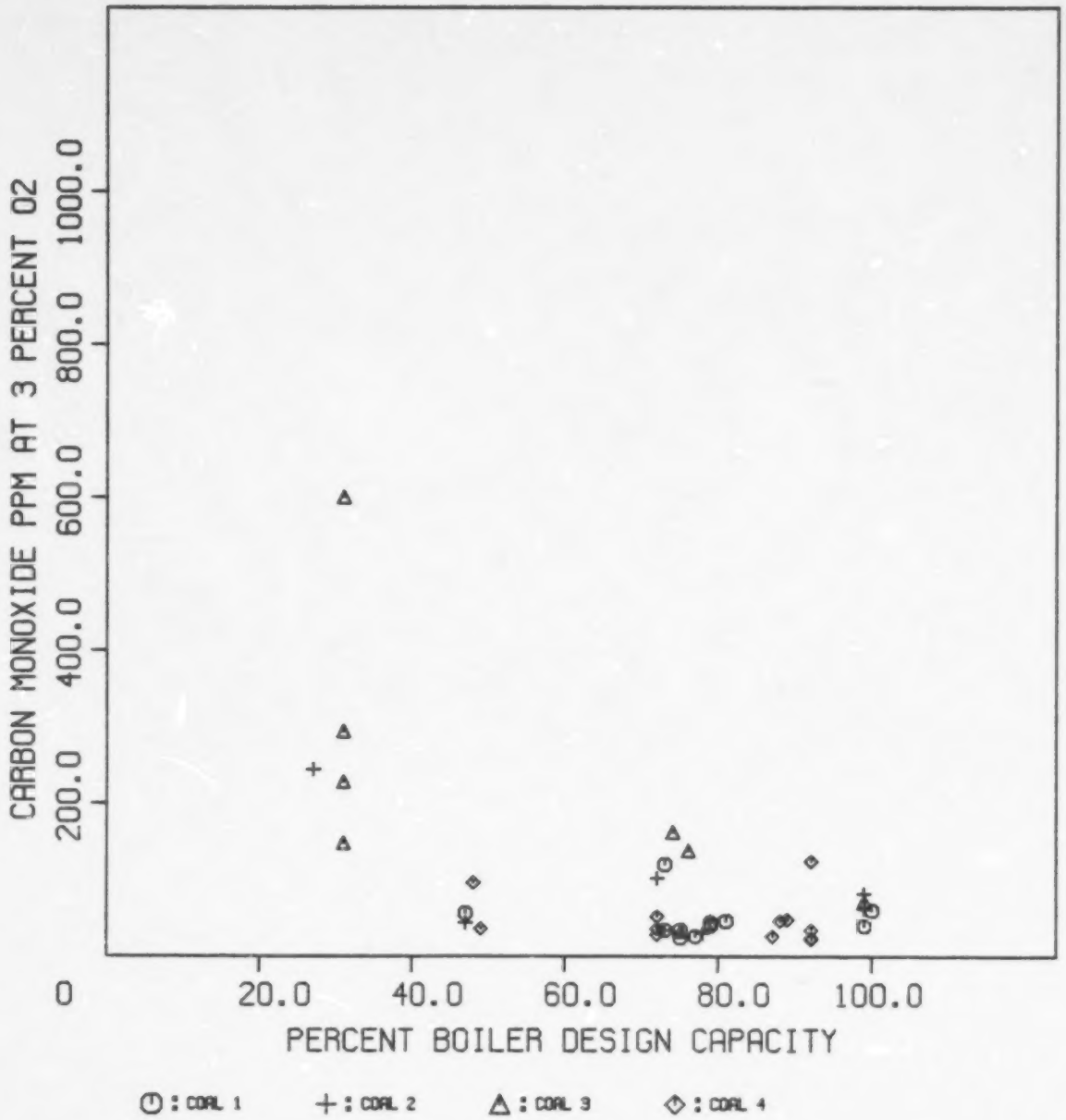


FIG. SITE B
CARBON MONOXIDE VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

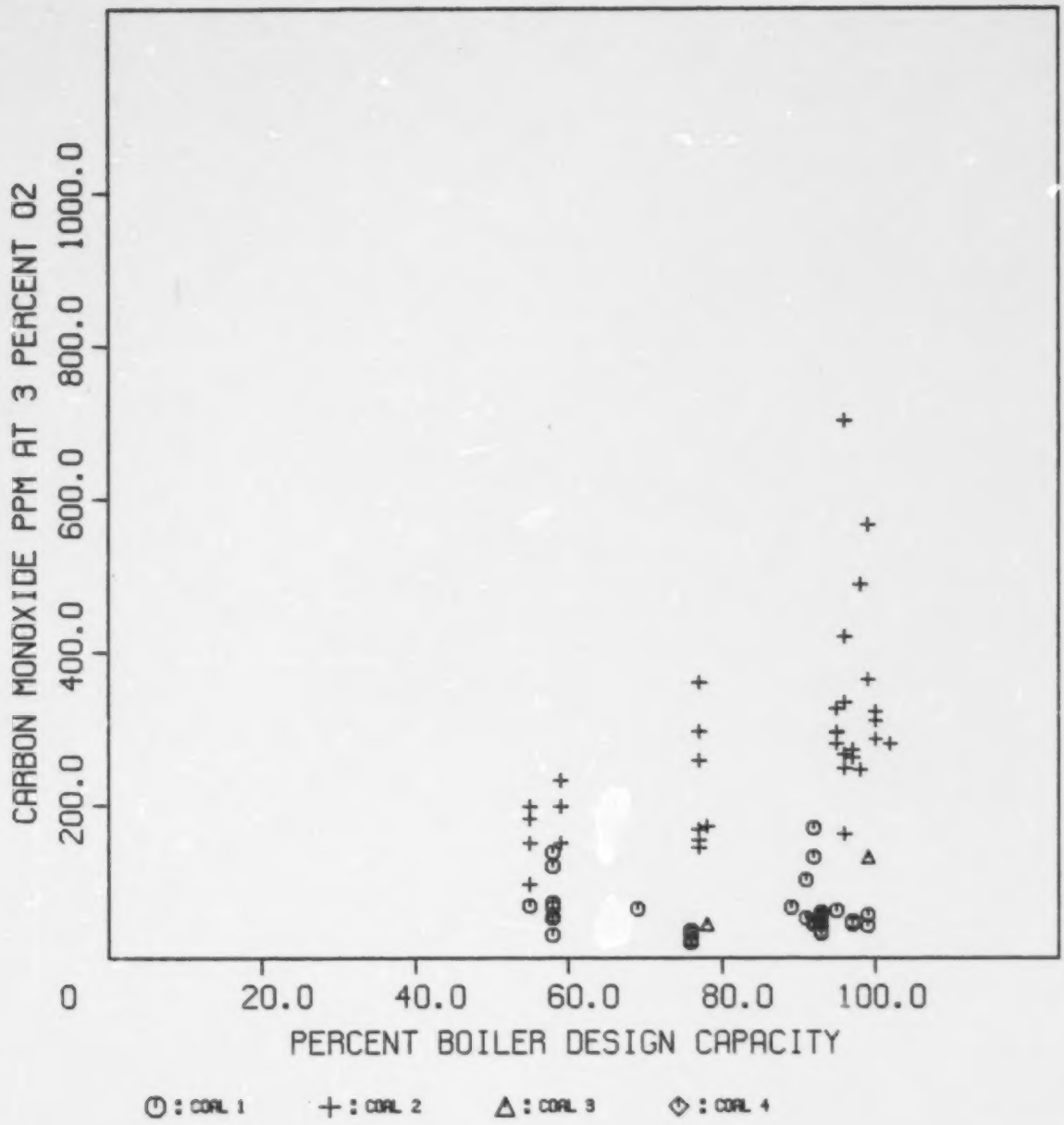


FIG. SITE C
CARBON MONOXIDE VS. PERCENT BOILER DESIGN CAPACITY

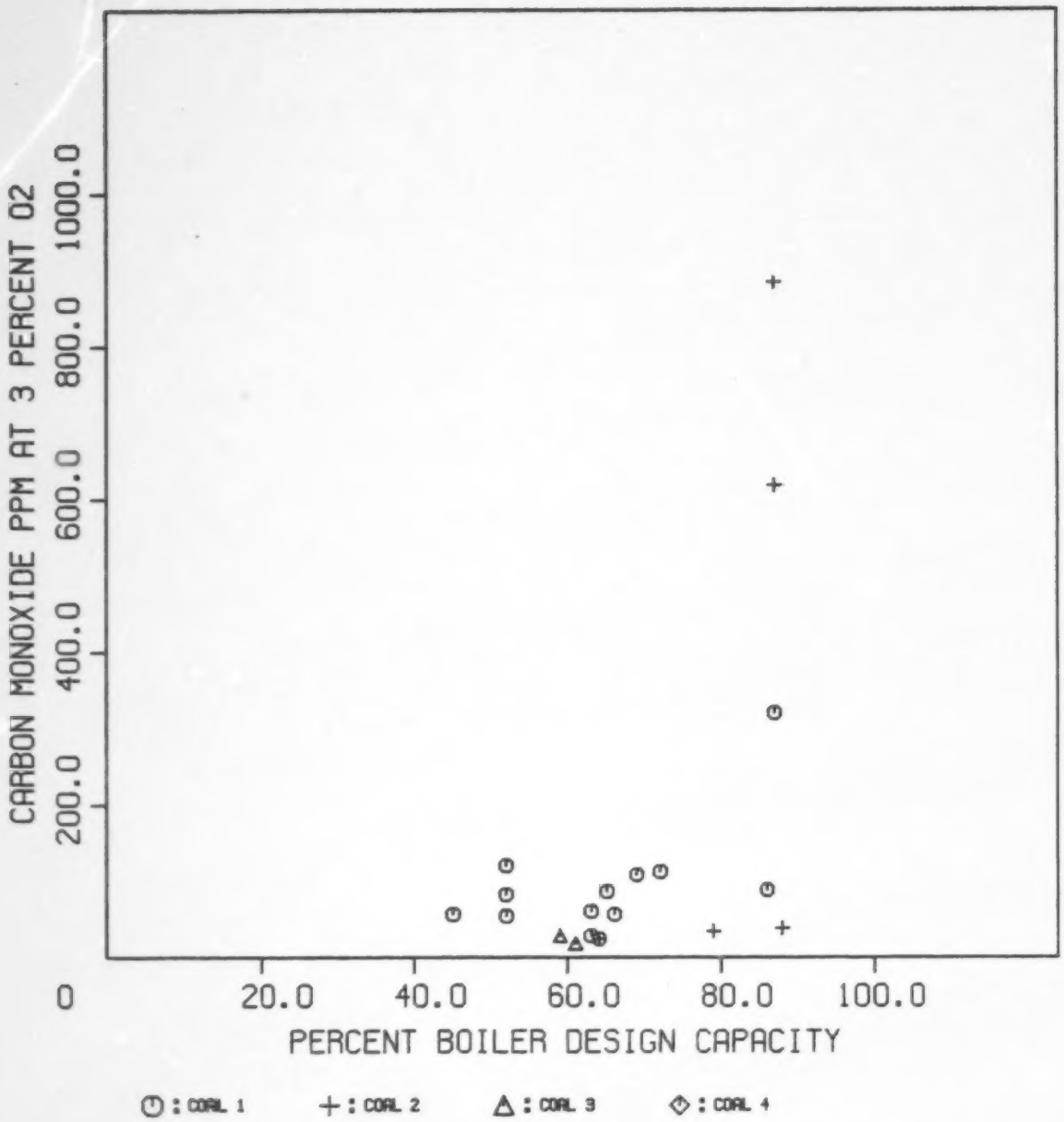


FIG. SITE D
CARBON MONOXIDE VS. PERCENT BOILER DESIGN CAPACITY

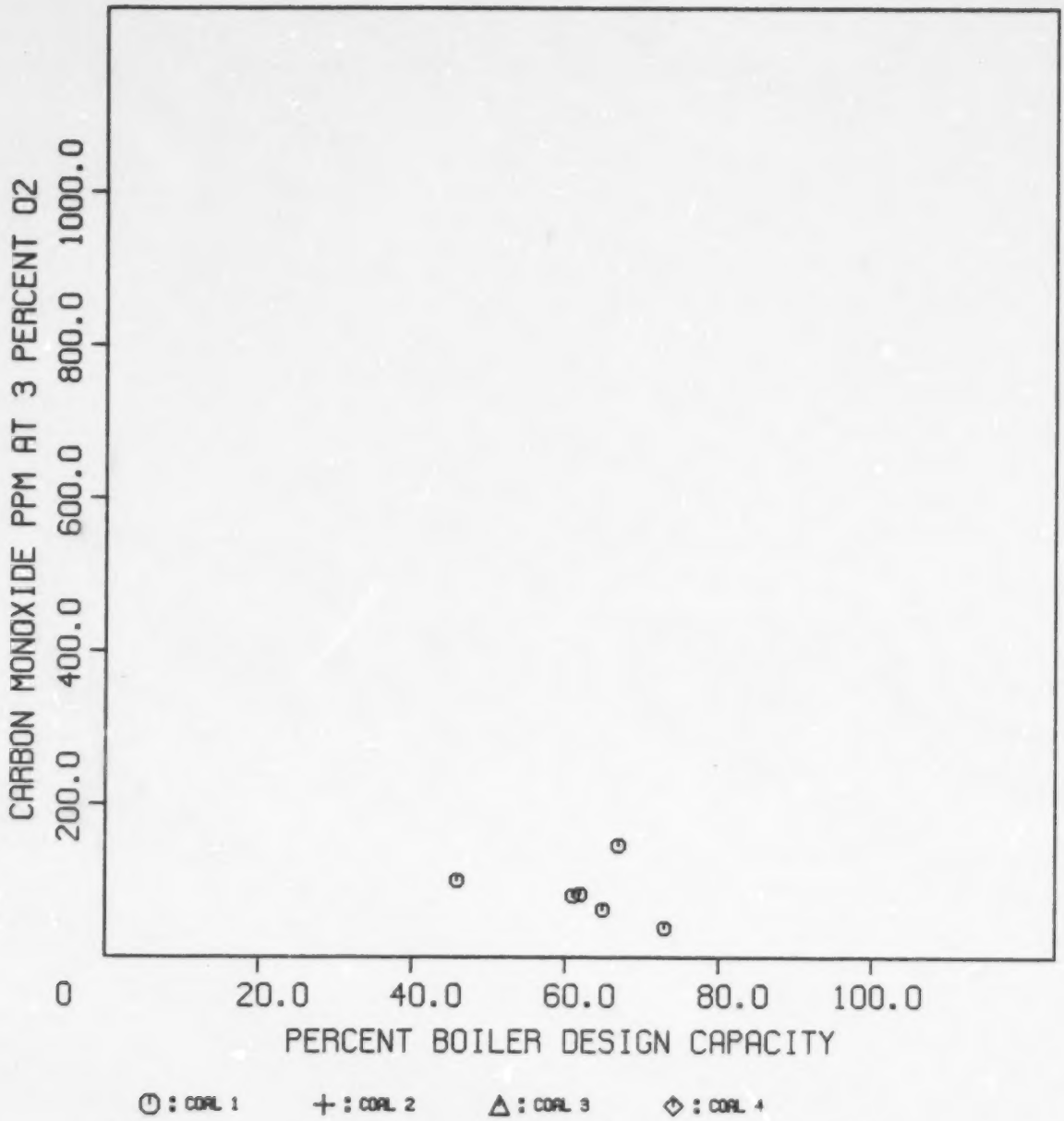


FIG. SITE E
CARBON MONOXIDE VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

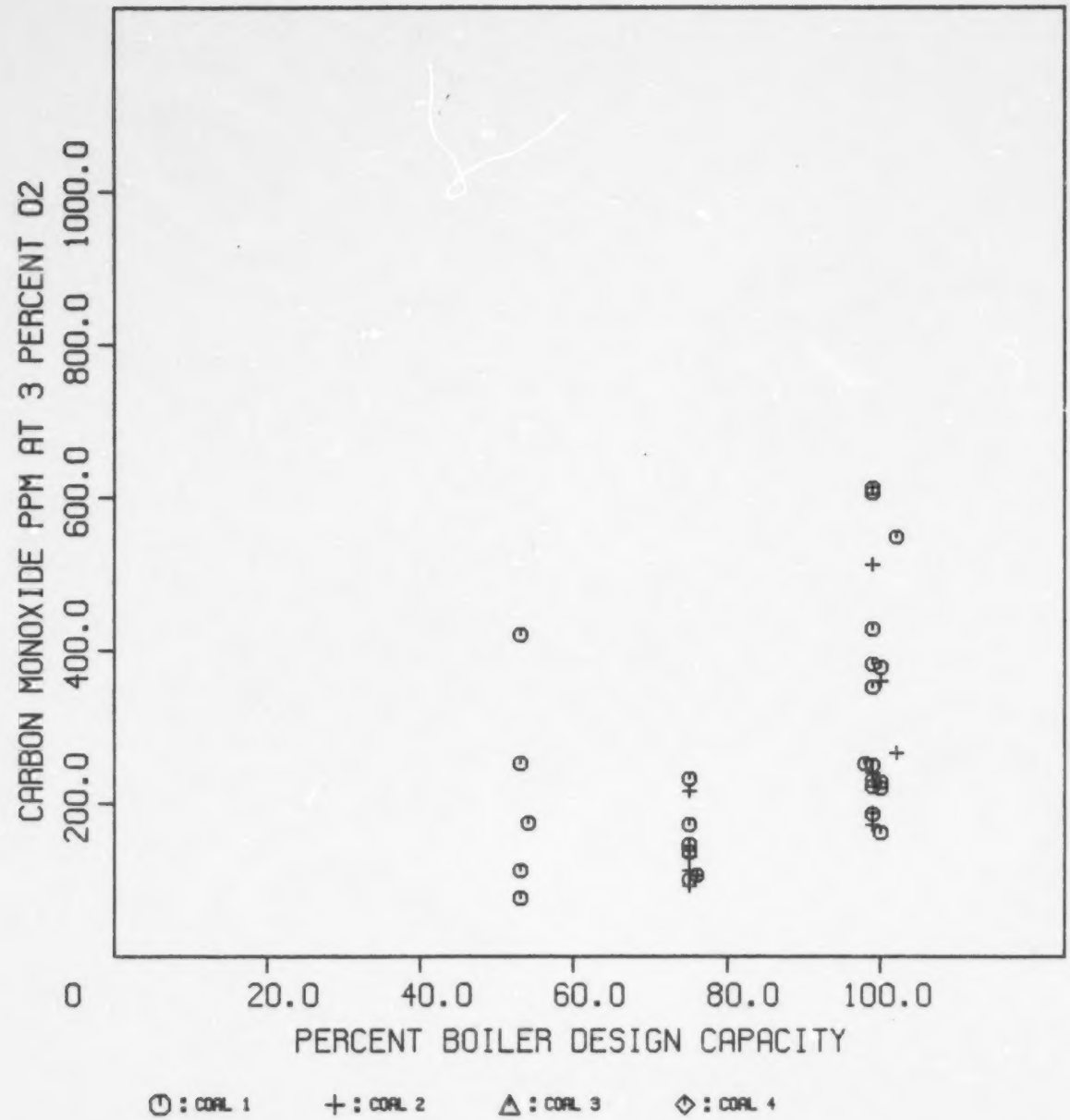


FIG. SITE F
CARBON MONOXIDE VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

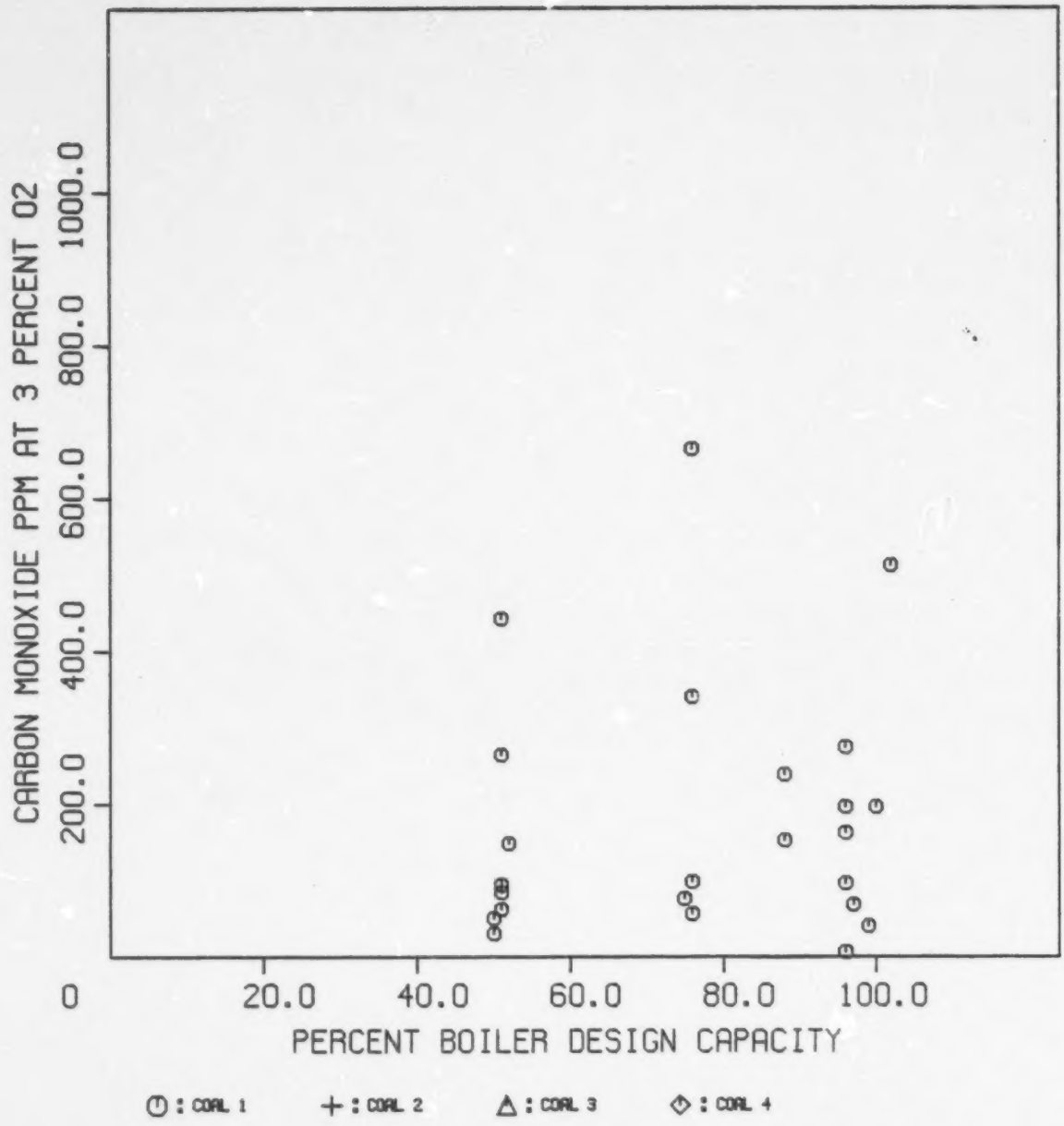


FIG. SITE H
CARBON MONOXIDE VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

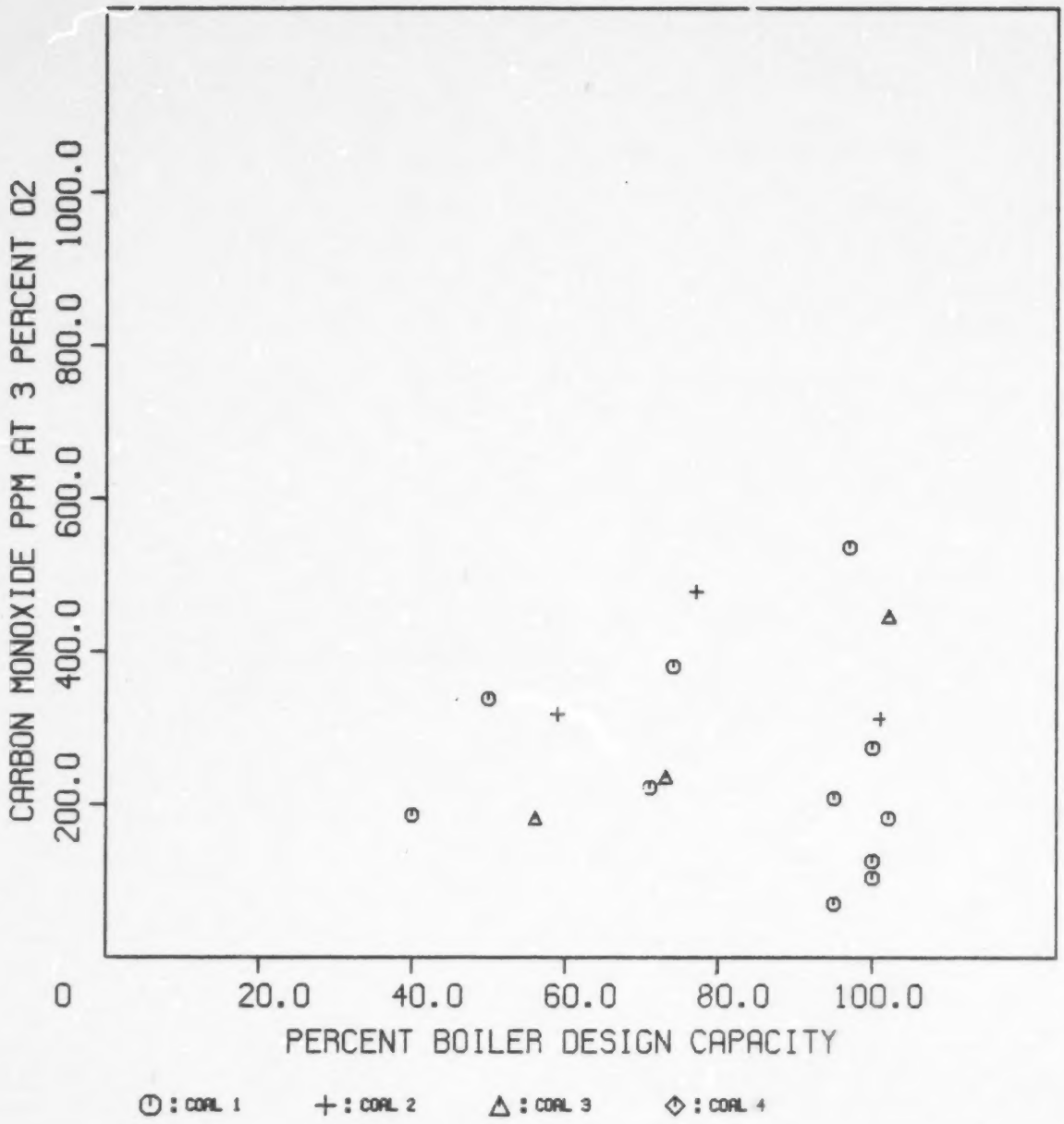


FIG. SITE K
CARBON MONOXIDE VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

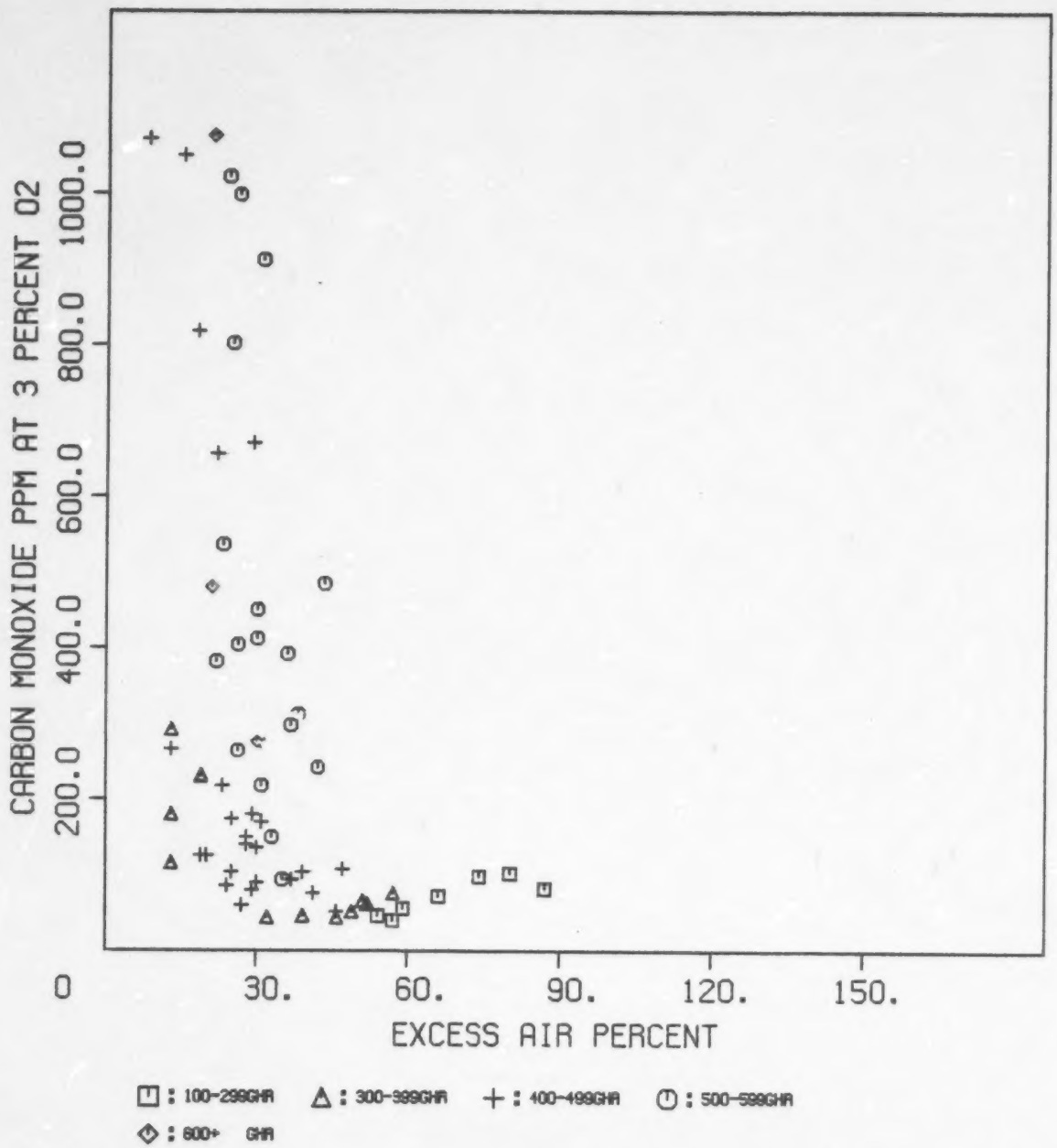


FIG. SITE A
CARBON MONOXIDE VS. EXCESS AIR

KVB4-15900-554

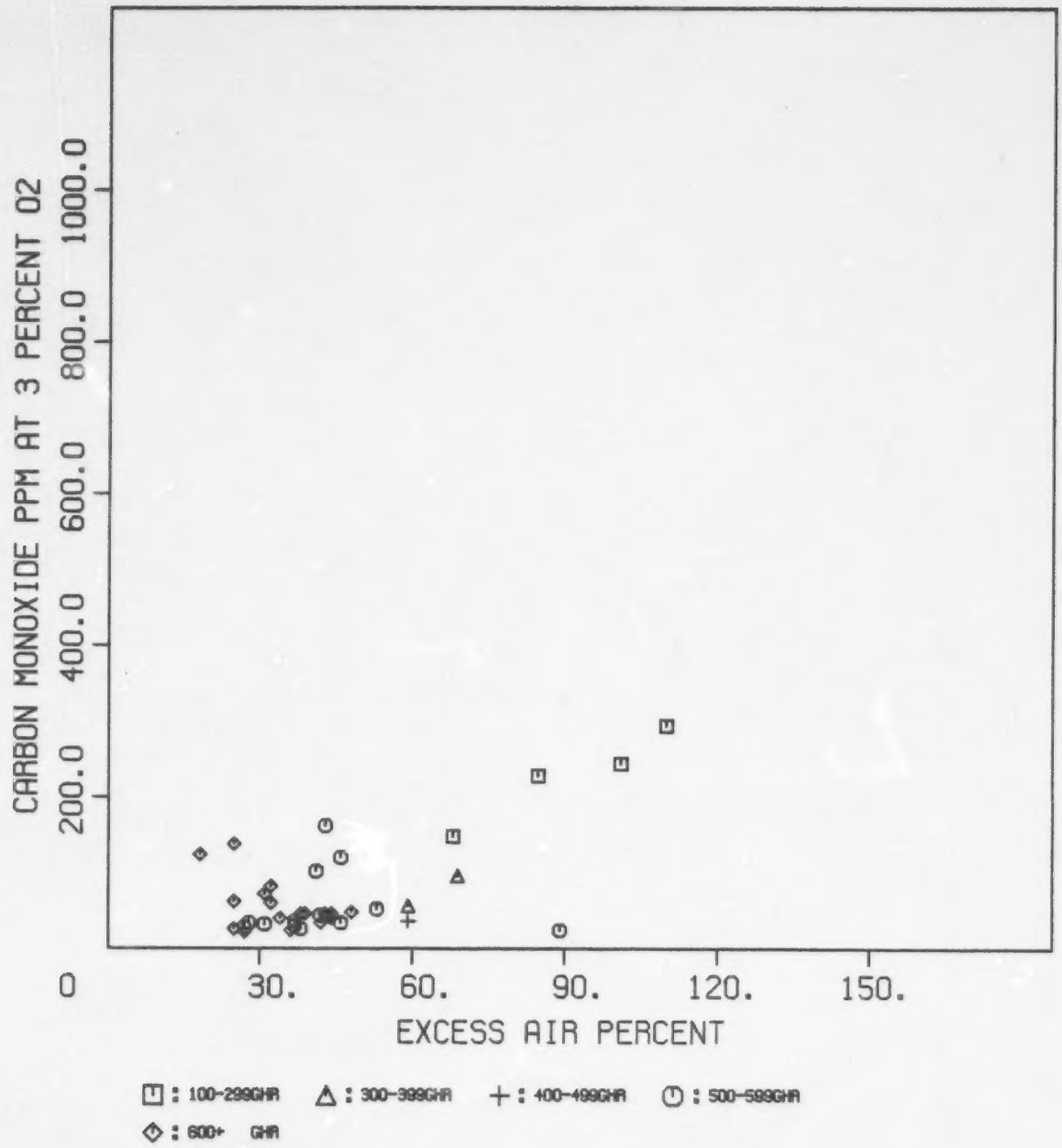


FIG. SITE B
CARBON MONOXIDE VS. EXCESS AIR

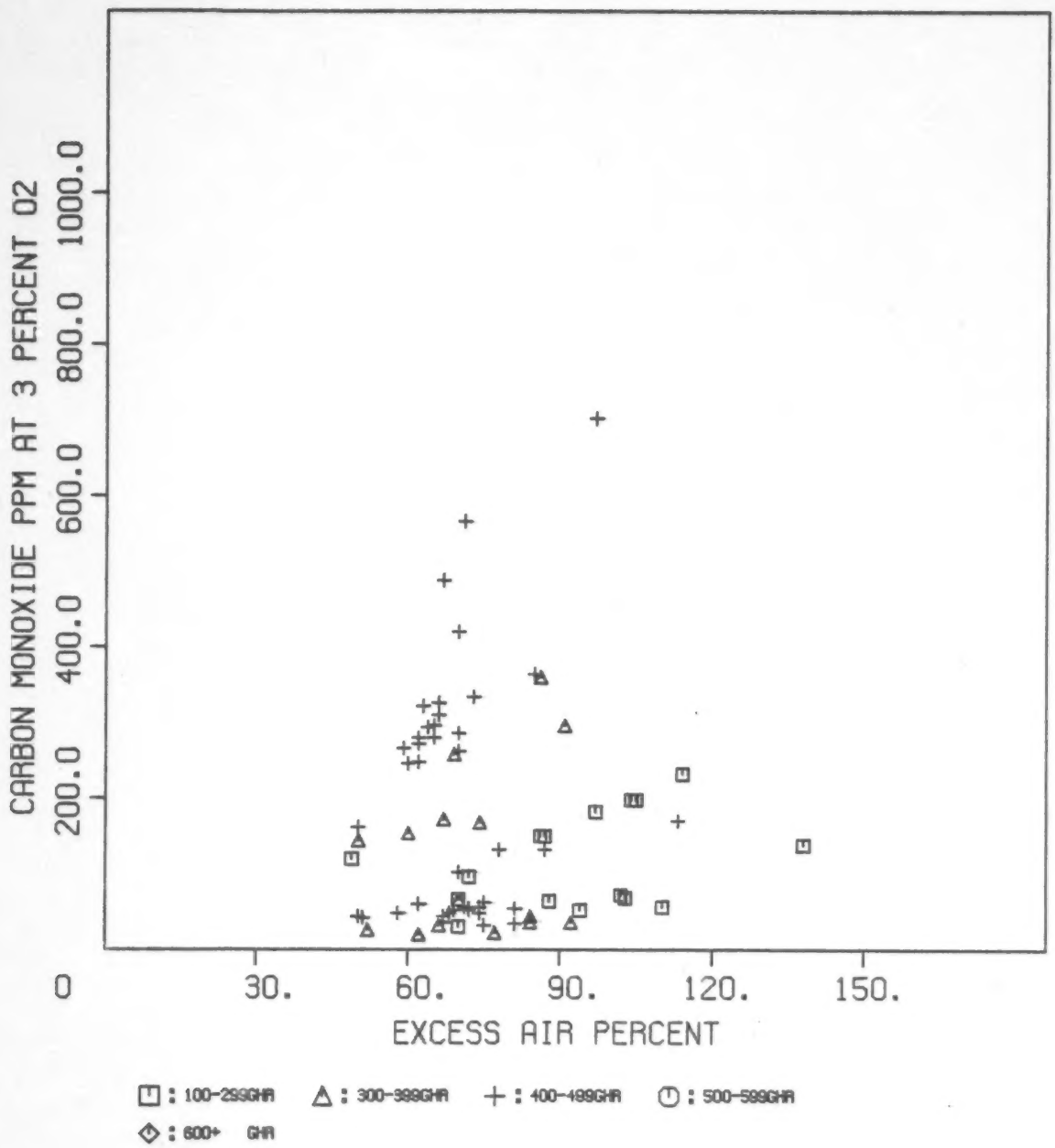


FIG. SITE C
CARBON MONOXIDE VS. EXCESS AIR

KVB4-15900-554

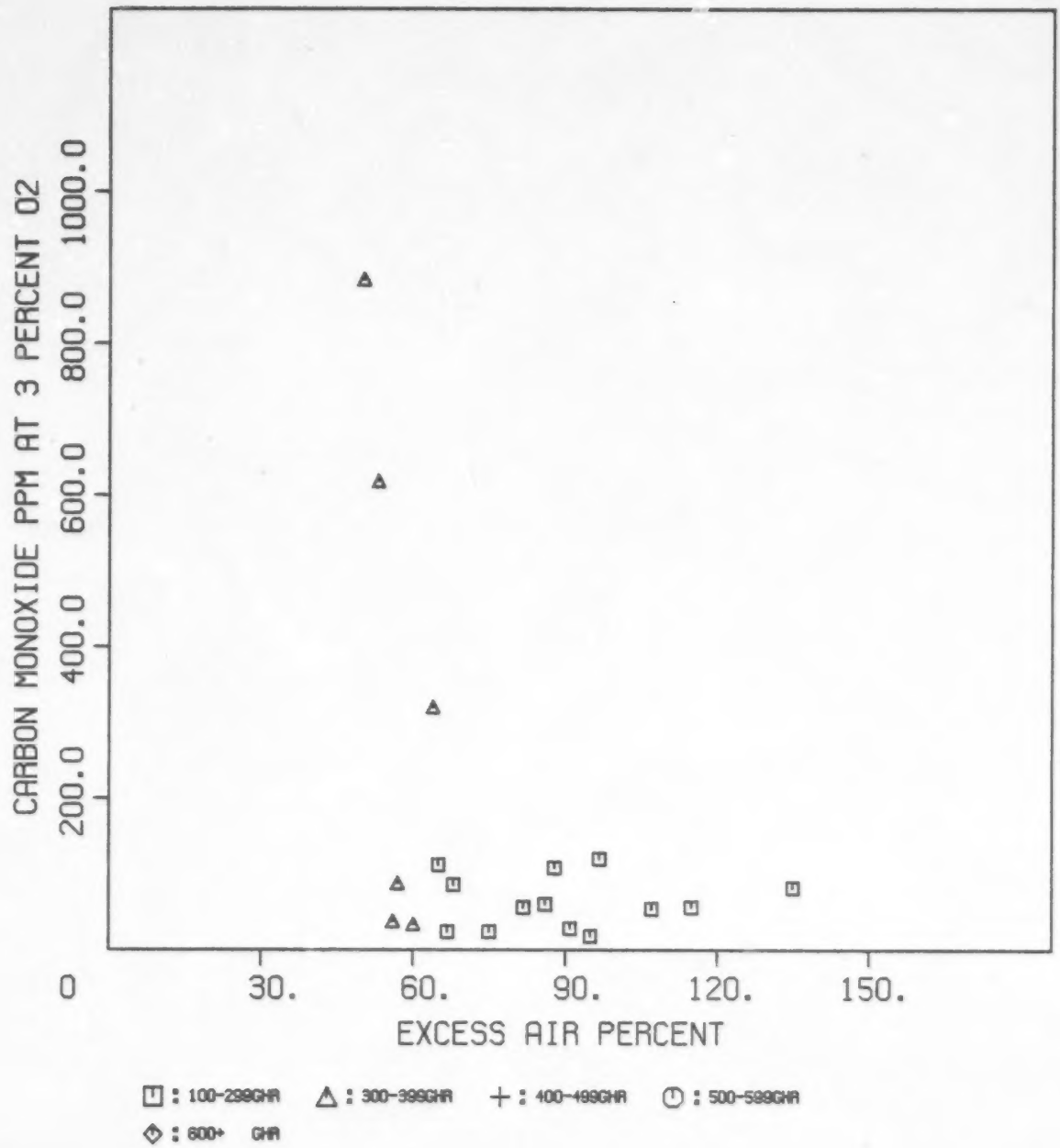


FIG. SITE D
CARBON MONOXIDE VS. EXCESS AIR

KVB4-15900-554

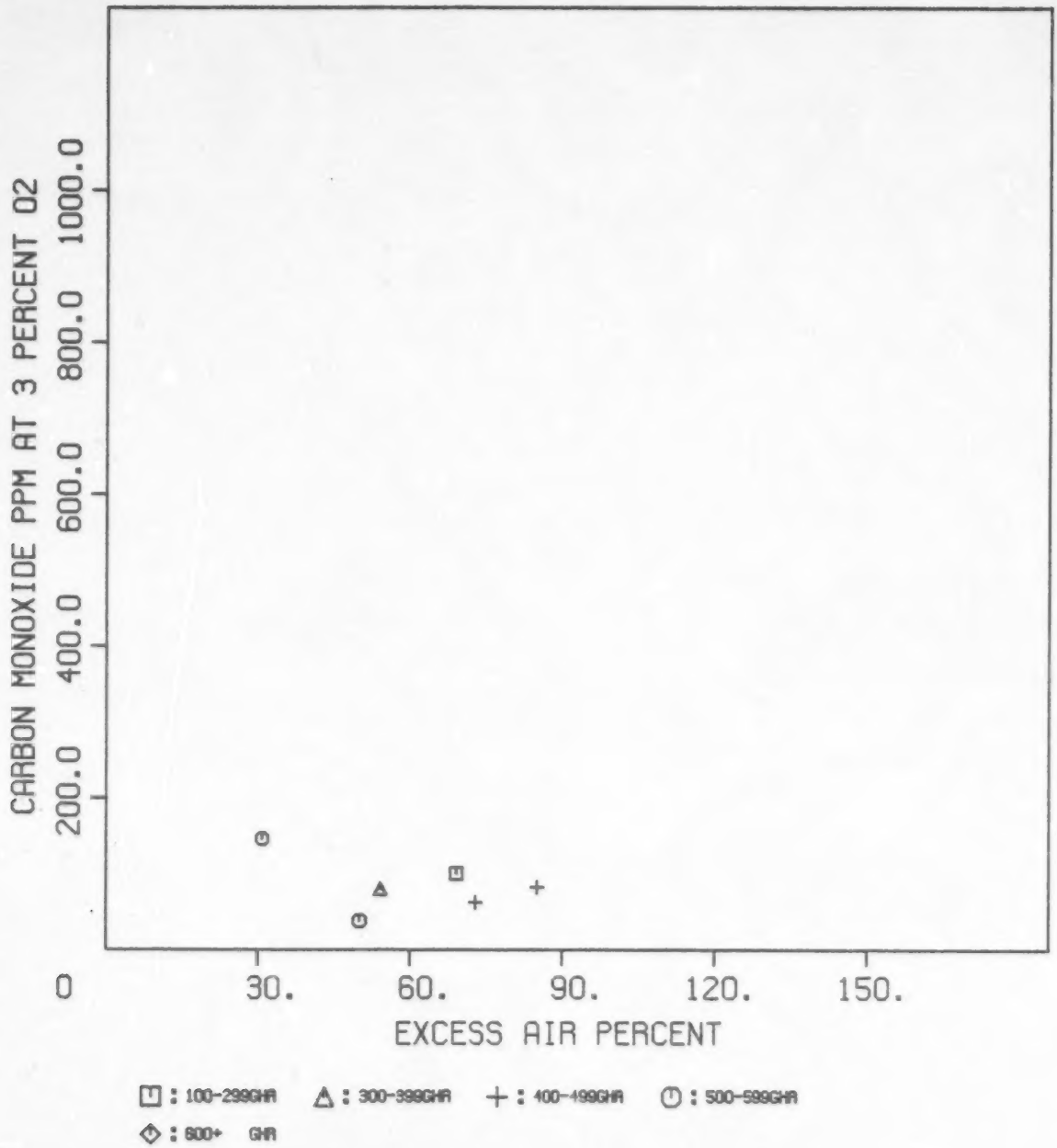


FIG. SITE E
CARBON MONOXIDE VS. EXCESS AIR

KV84-15900-554

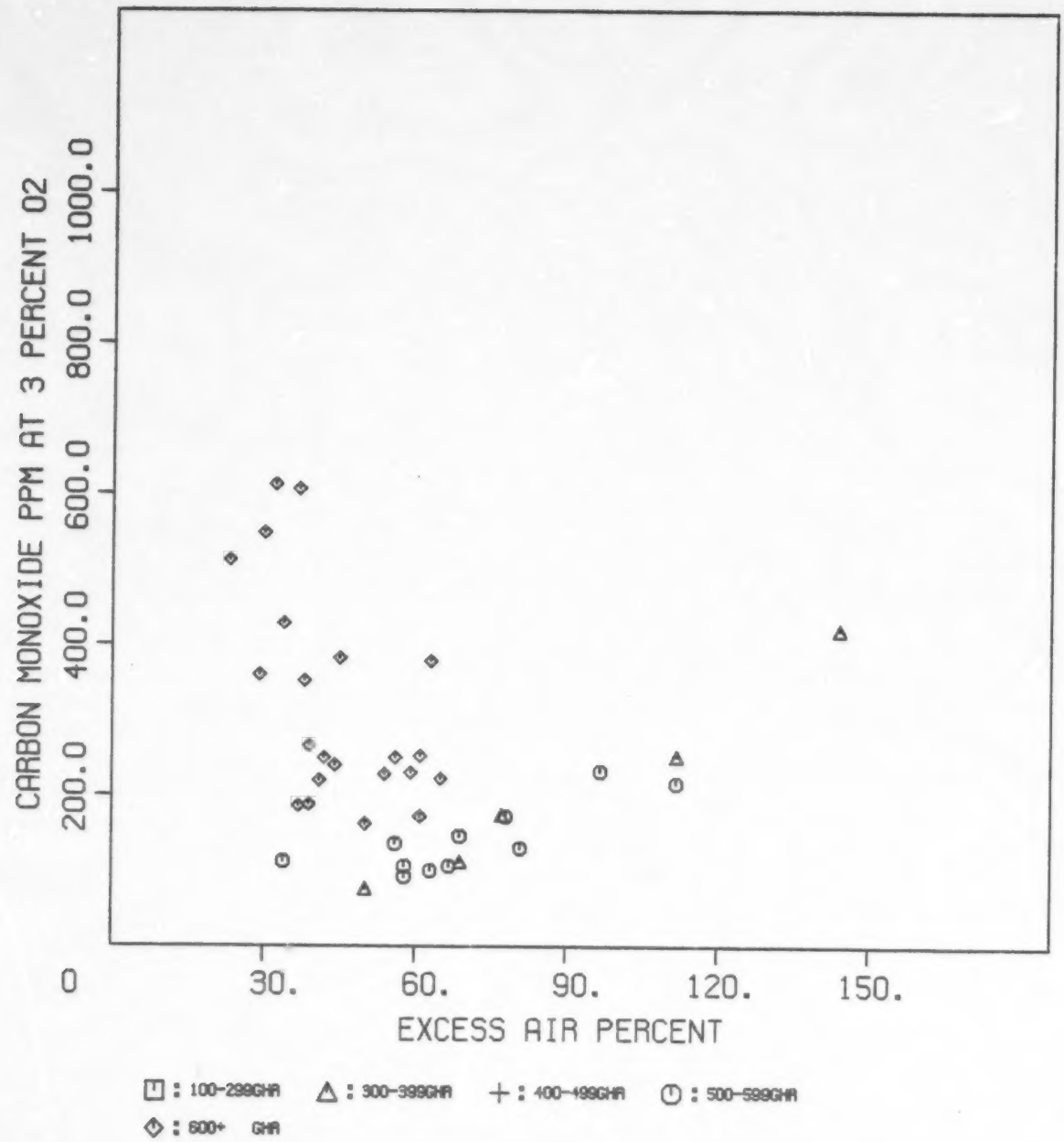


FIG. SITE F
CARBON MONOXIDE VS. EXCESS AIR

KVB4-15900-554

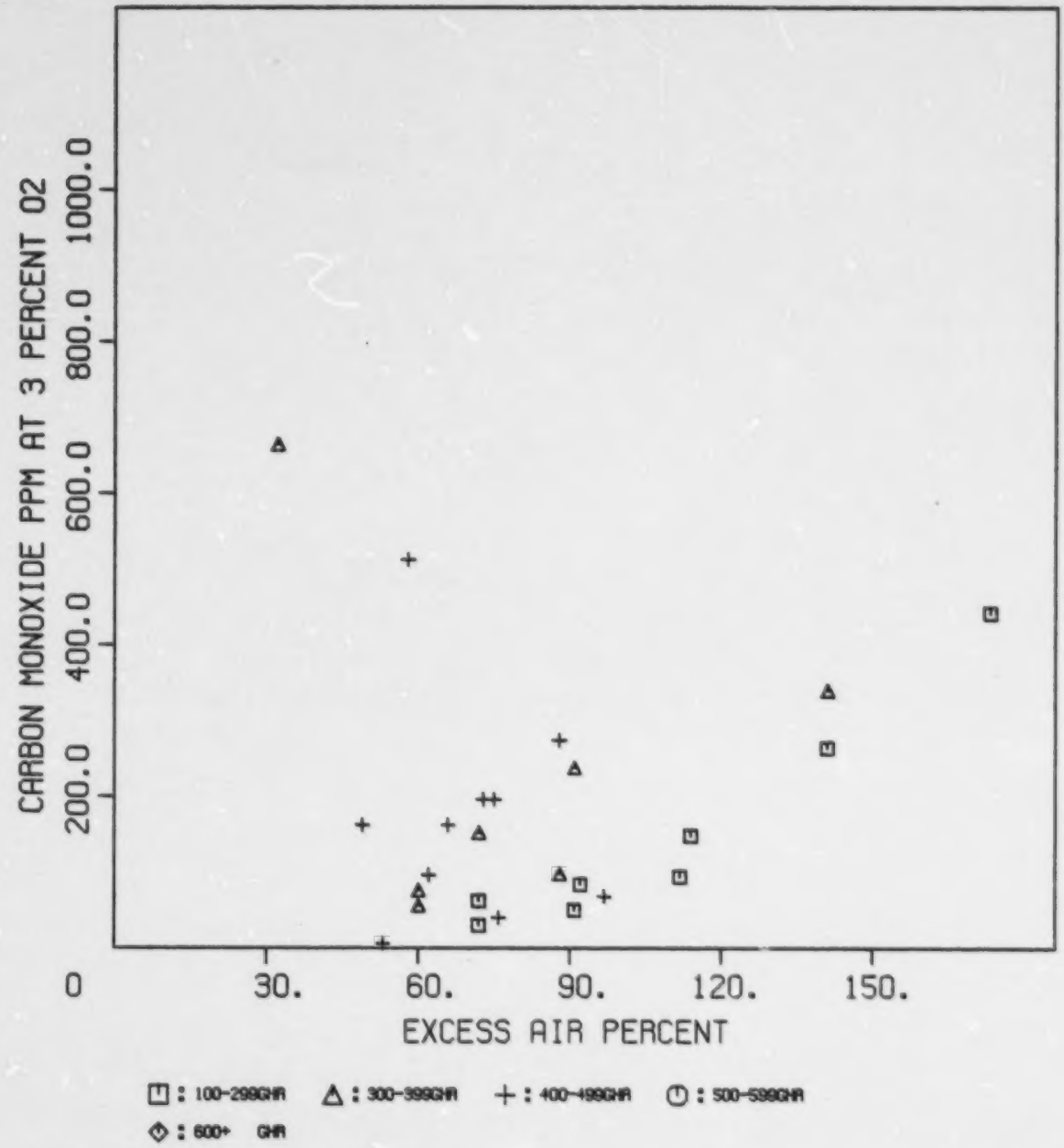


FIG. SITE H
CARBON MONOXIDE VS. EXCESS AIR

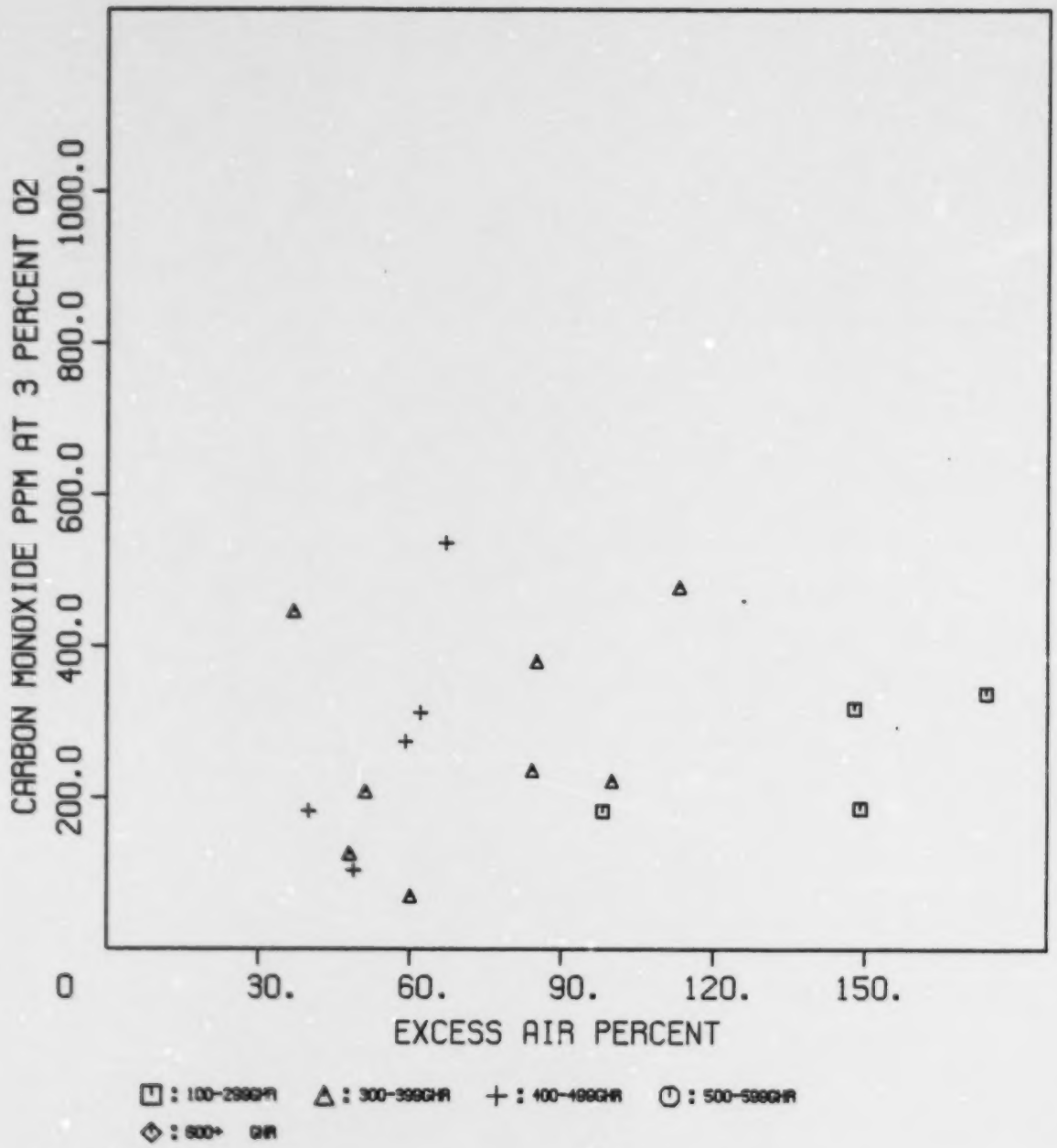


FIG. SITE K
CARBON MONOXIDE VS. EXCESS AIR

KVB4-15800-554

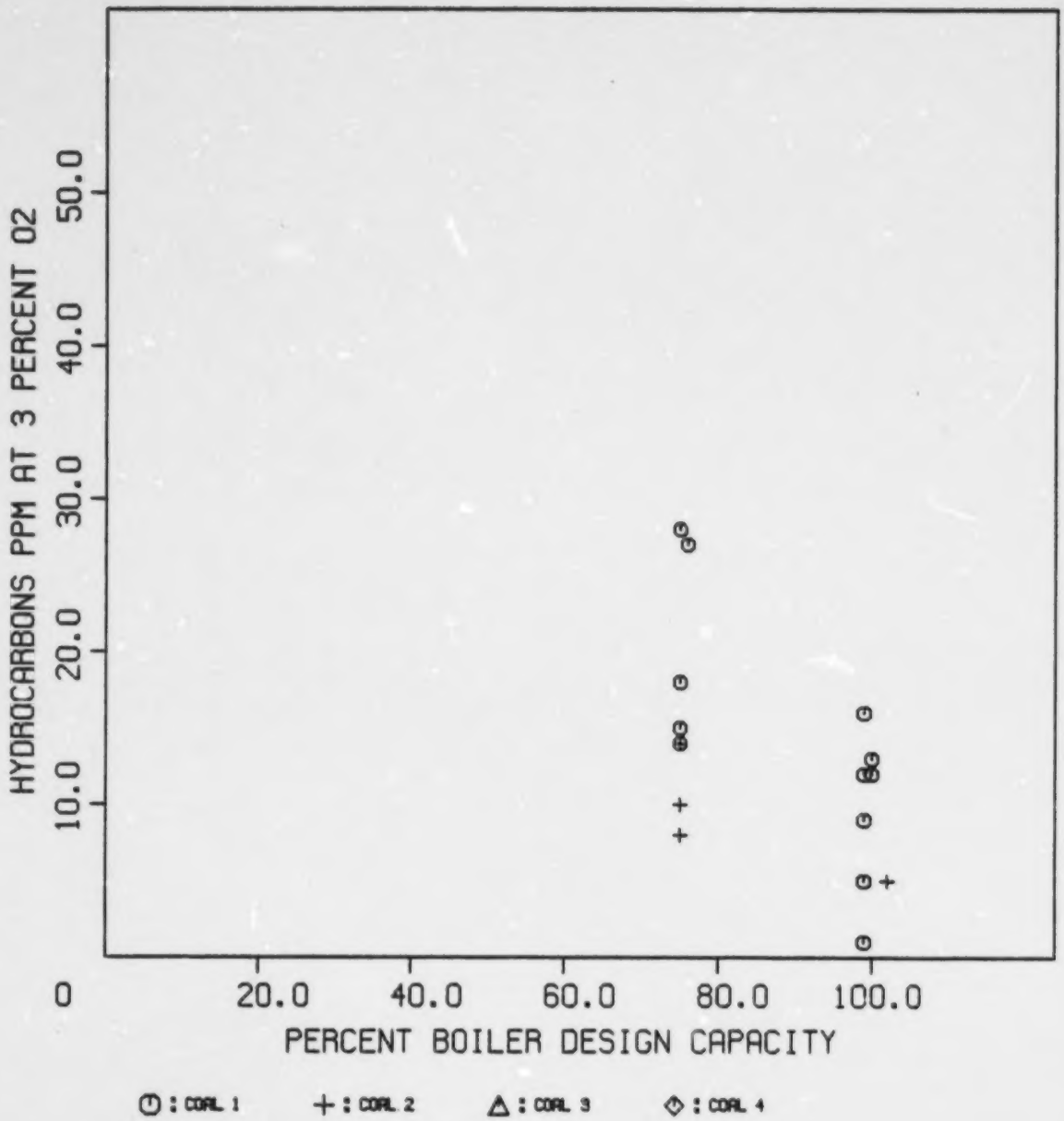


FIG. SITE F
HYDROCARBONS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

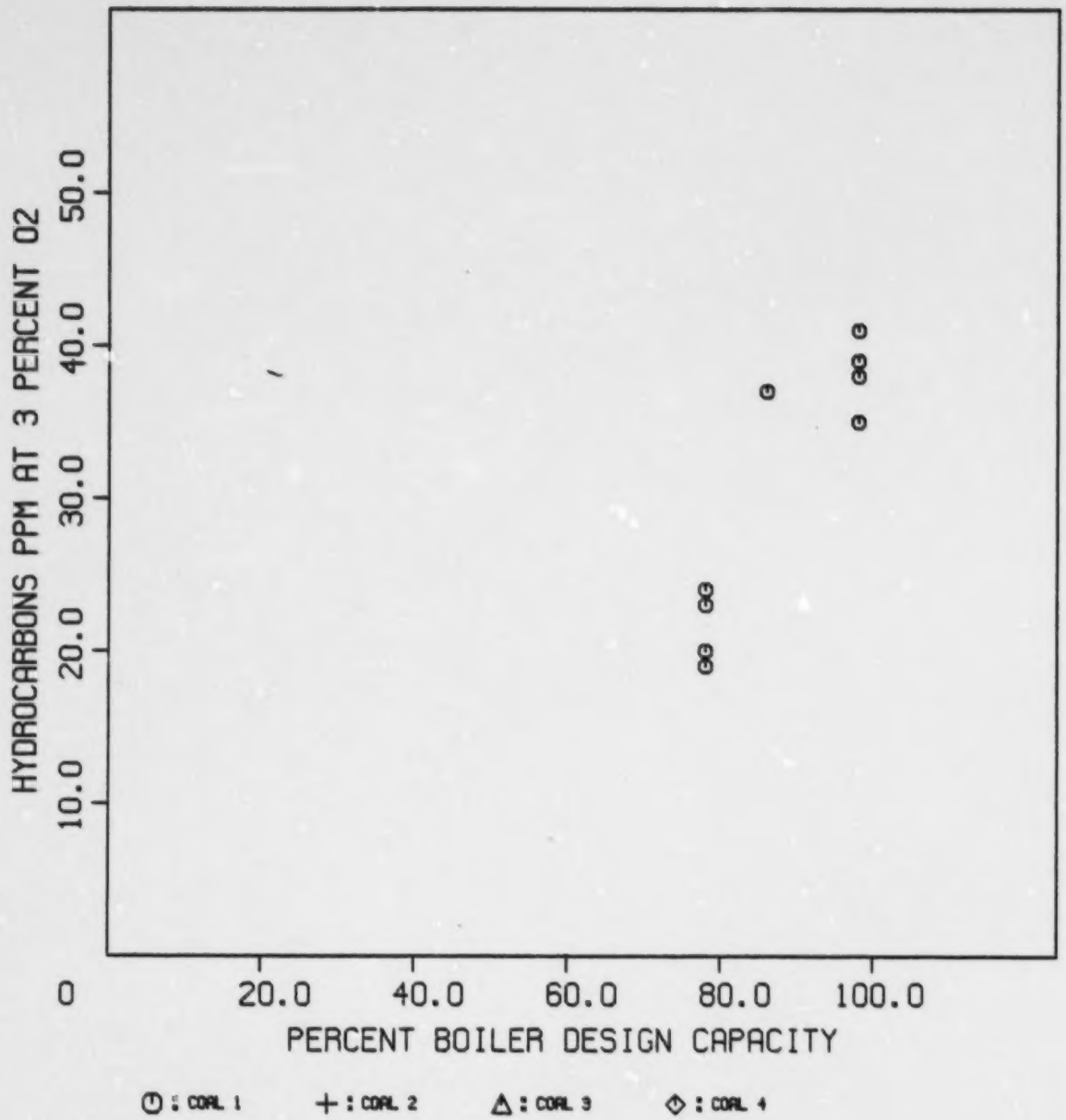


FIG. SITE G
HYDROCARBONS VS. PERCENT BOILER DESIGN CAPACITY

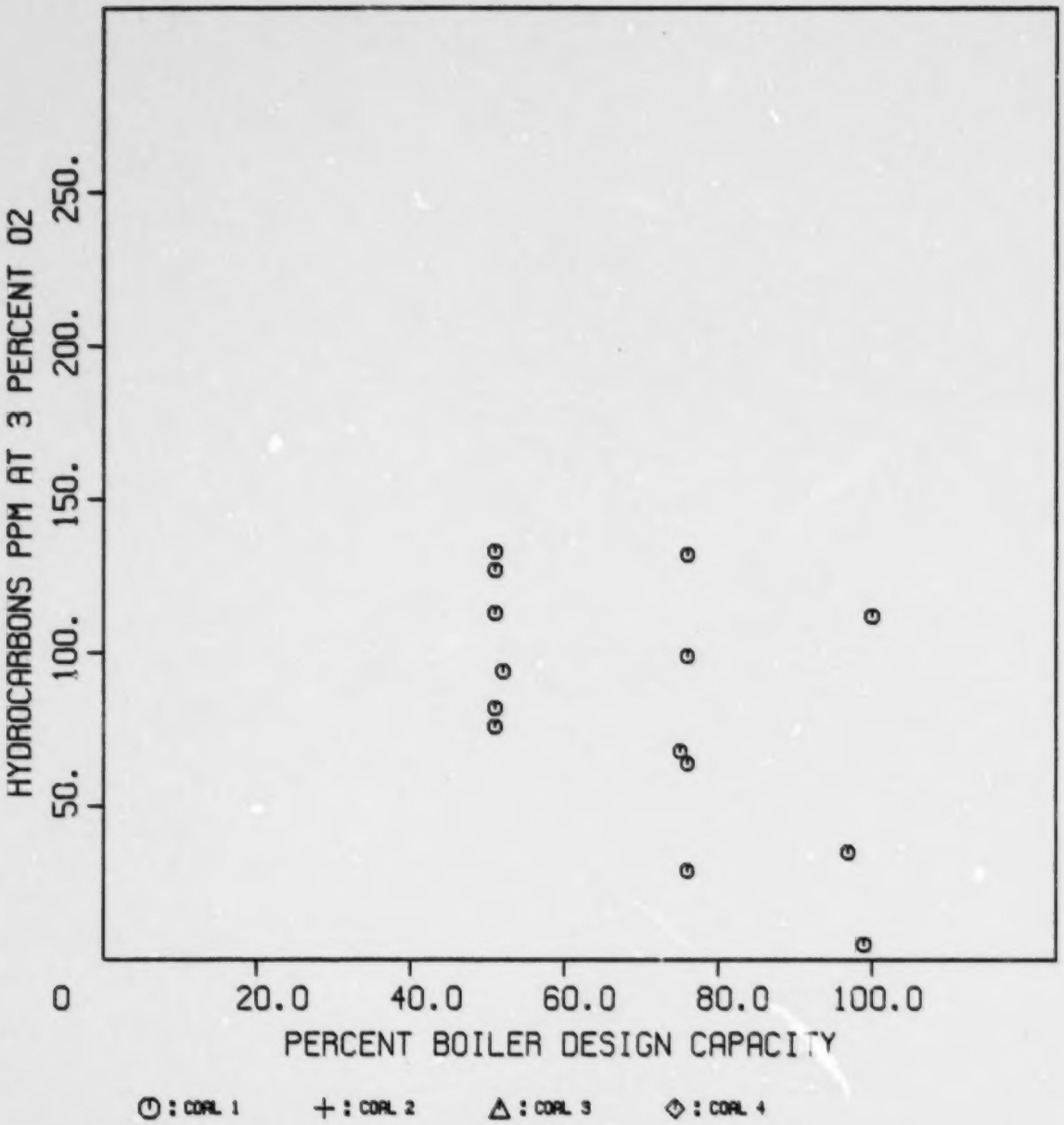


FIG. SITE H
HYDROCARBONS VS. PERCENT BOILER DESIGN CAPACITY

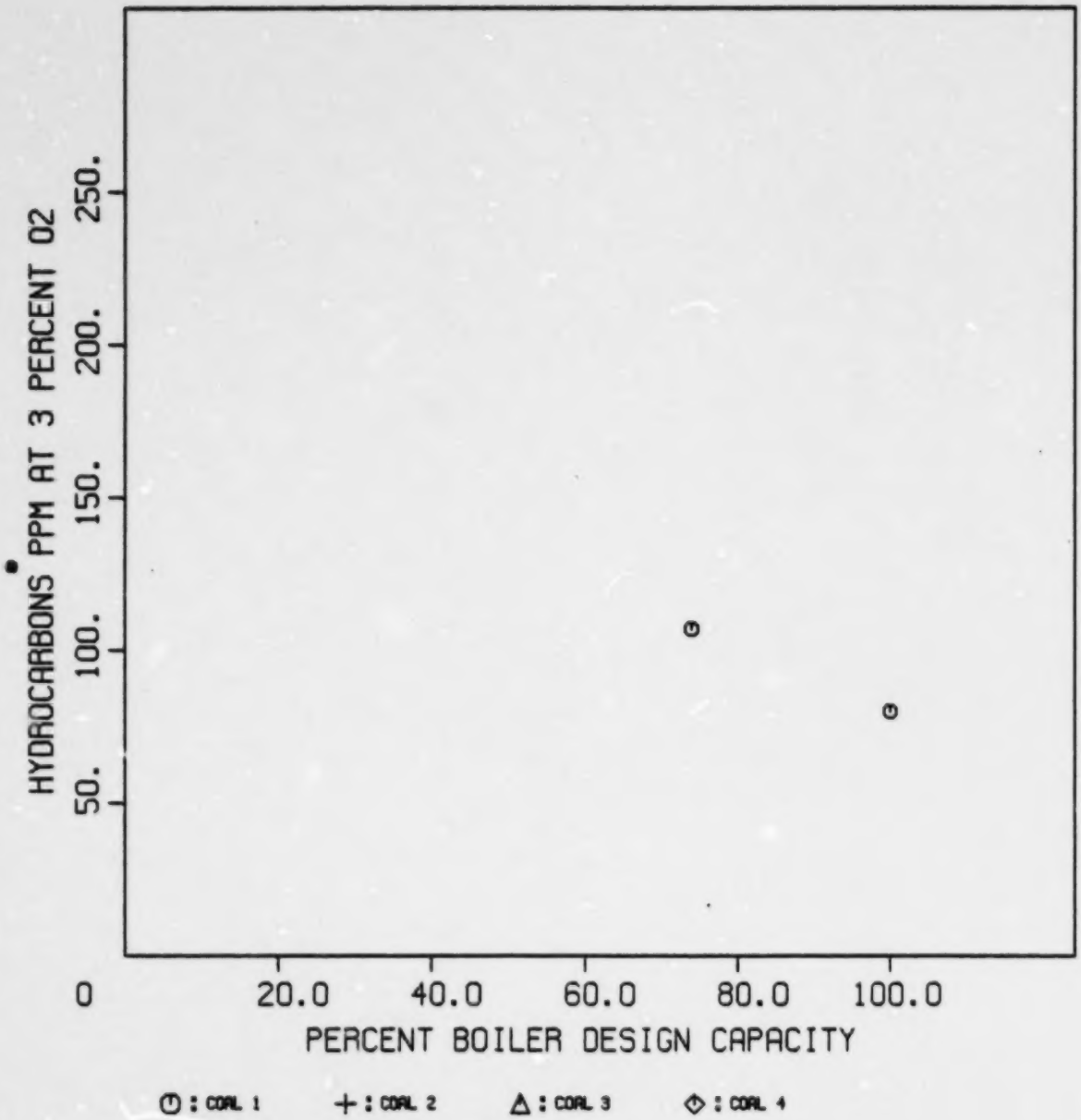


FIG. SITE J
HYDROCARBONS VS. PERCENT BOILER DESIGN CAPACITY

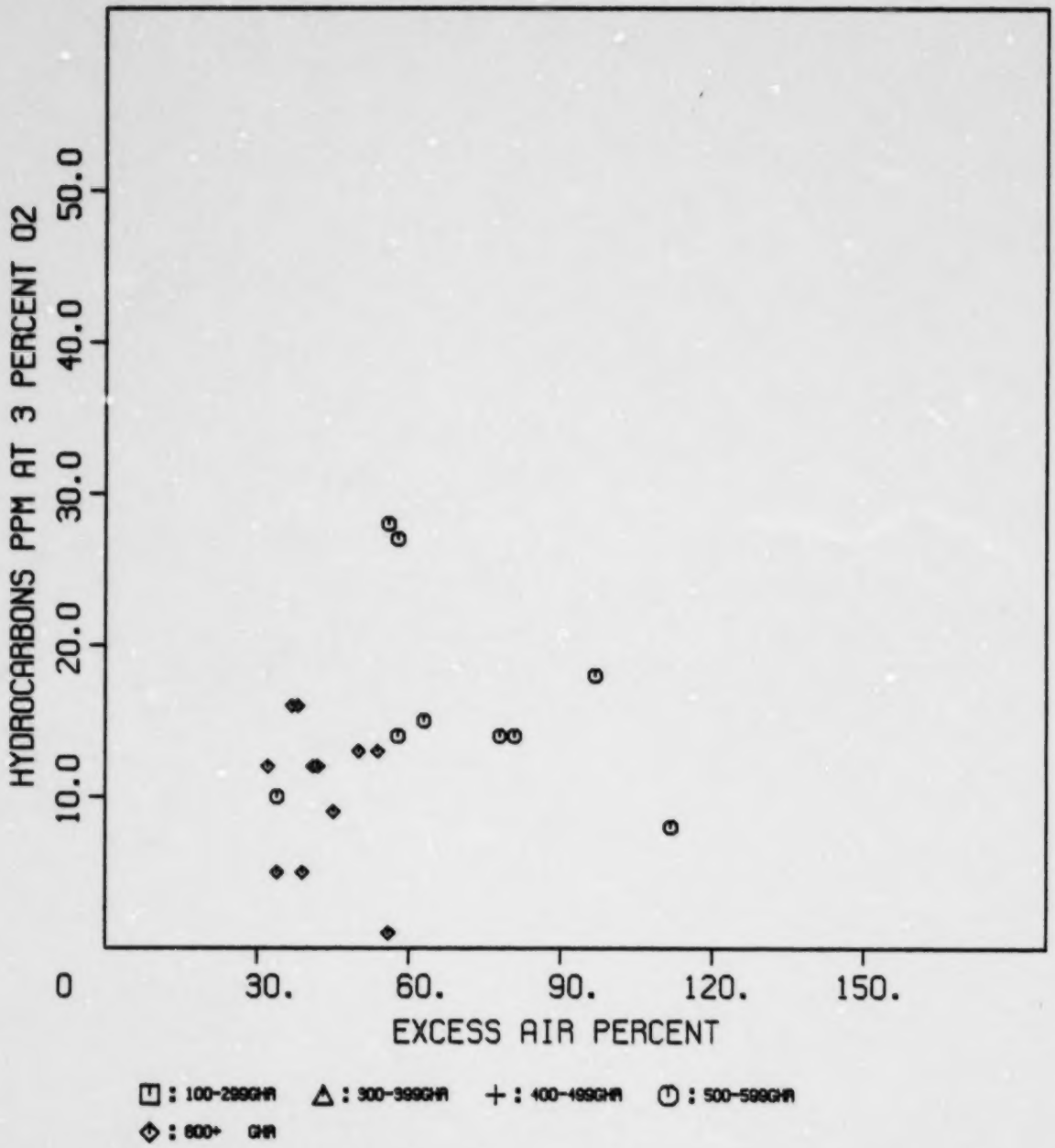


FIG. SITE F
HYDROCARBONS VS. EXCESS AIR

KVB4-15900-554

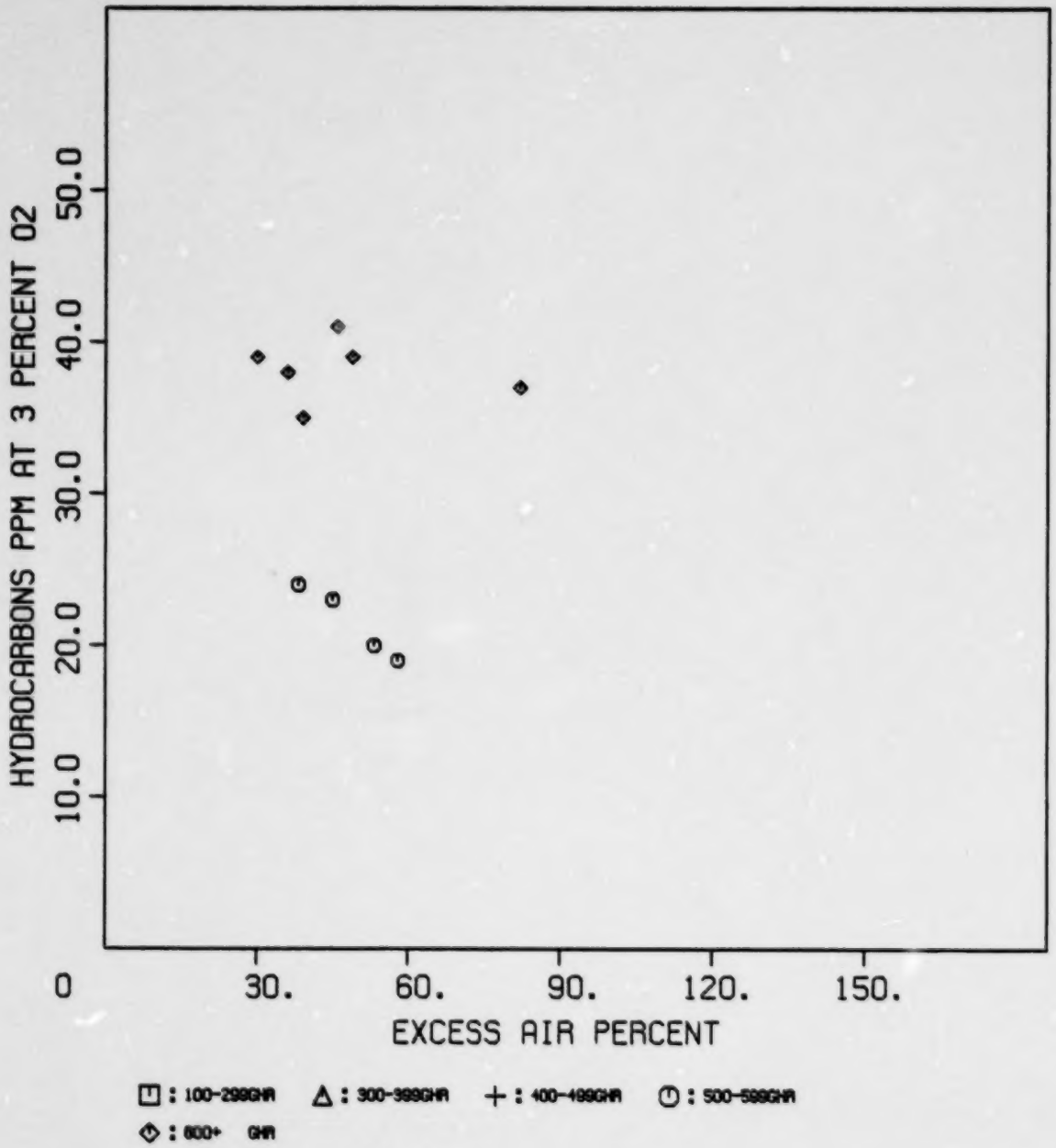


FIG. SITE G
HYDROCARBONS VS. EXCESS AIR

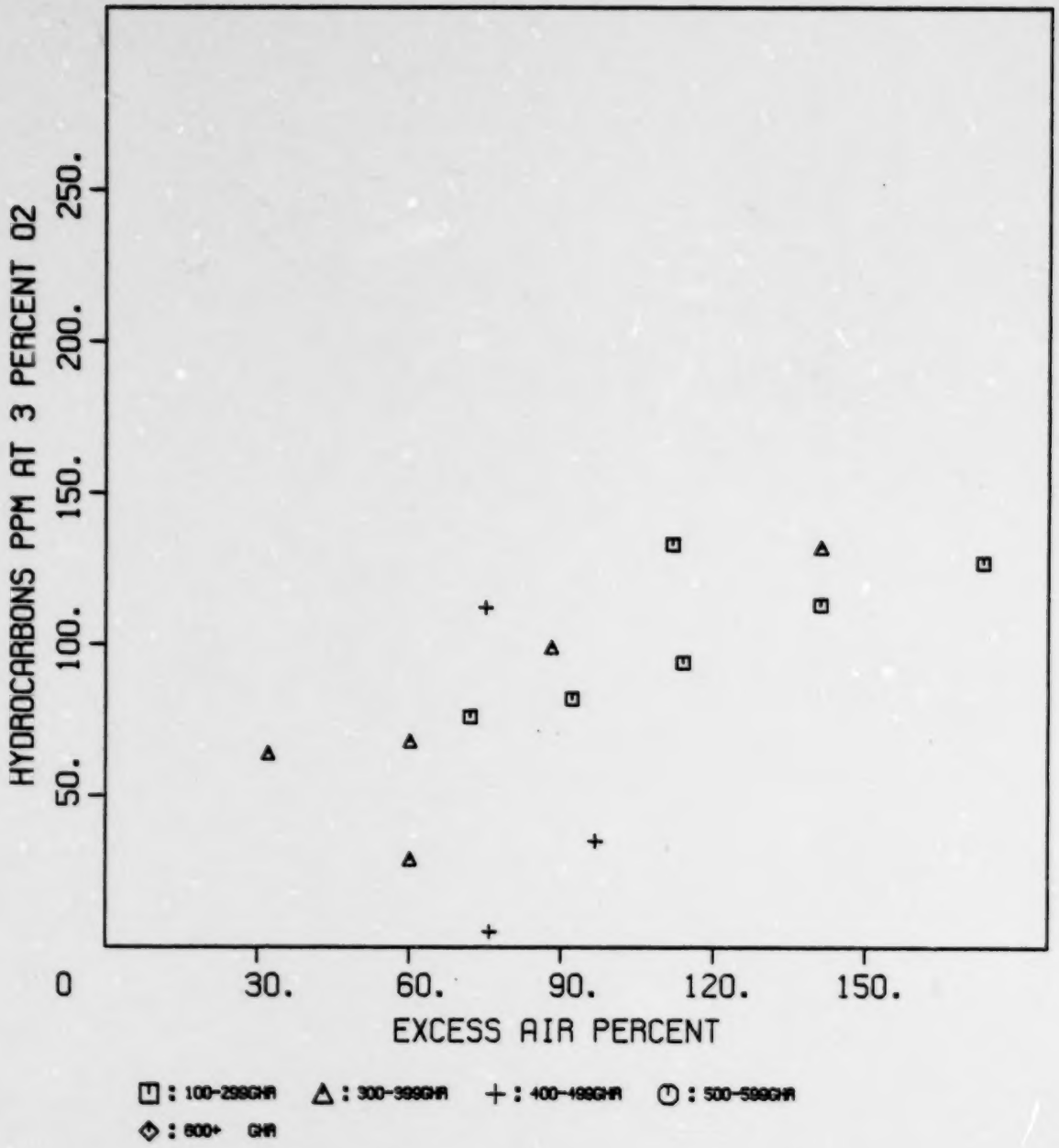


FIG. SITE H
HYDROCARBONS VS. EXCESS AIR

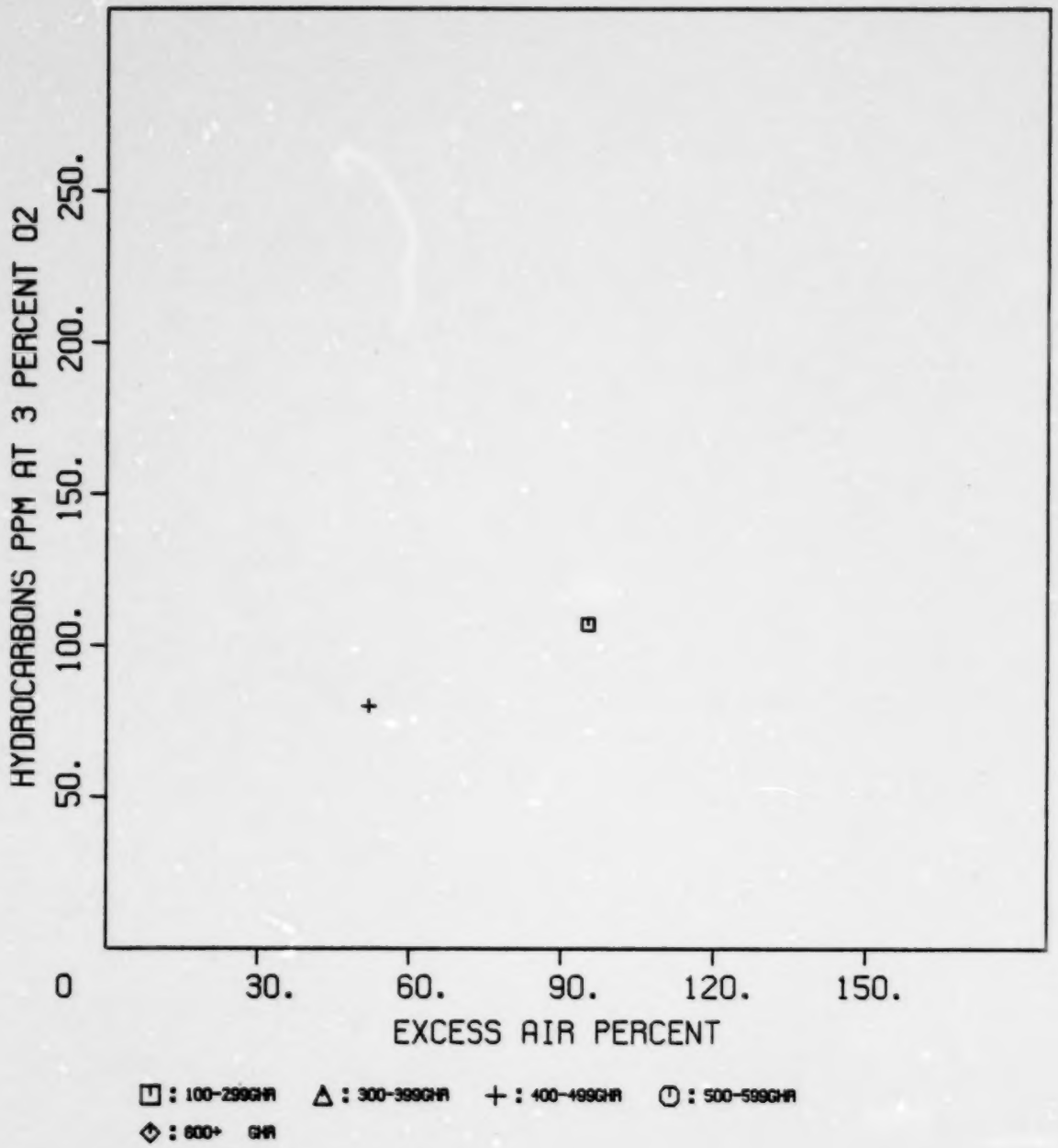


FIG. SITE J
HYDROCARBONS VS. EXCESS AIR

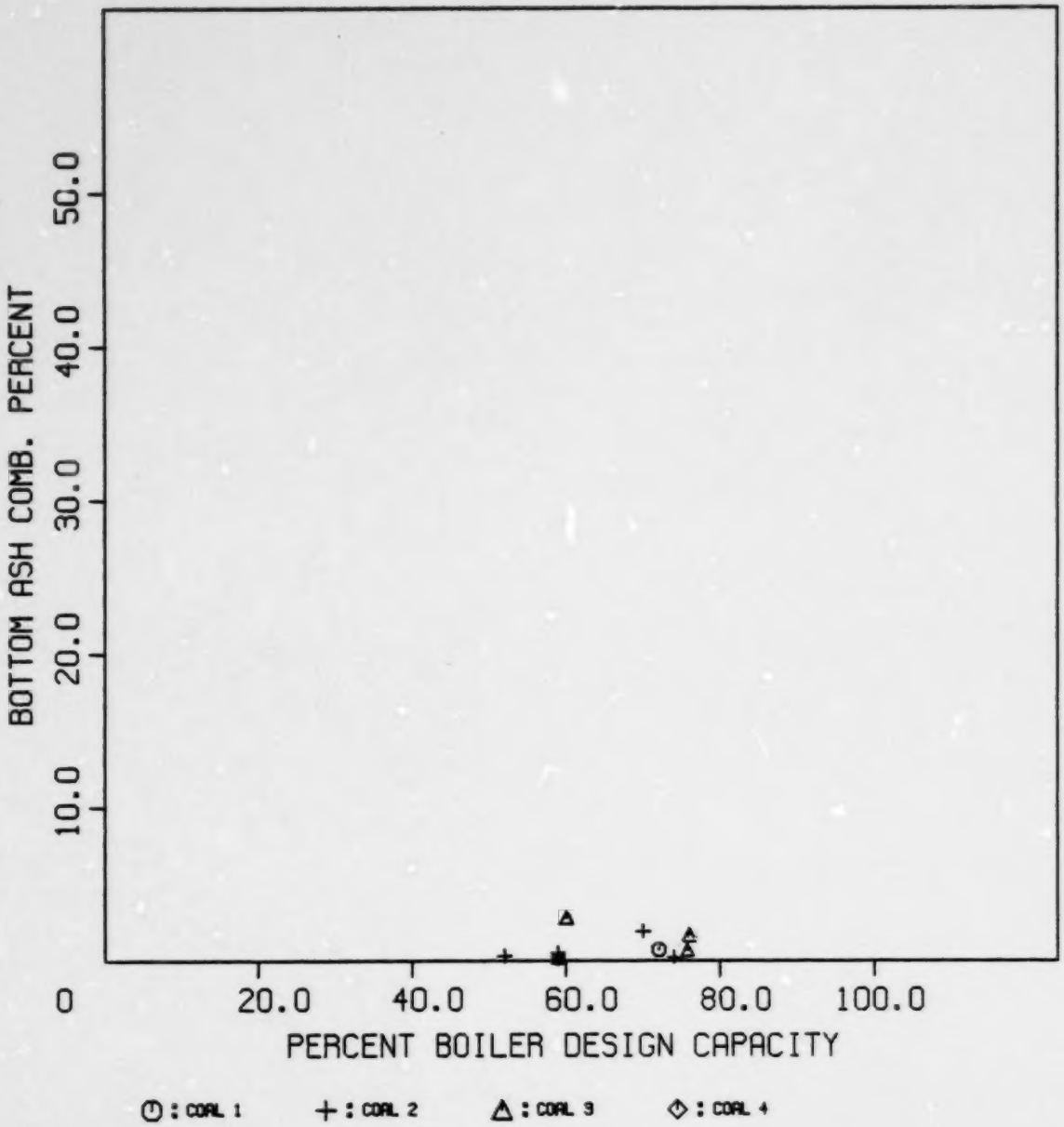


FIG. SITE A
BOTTOM ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

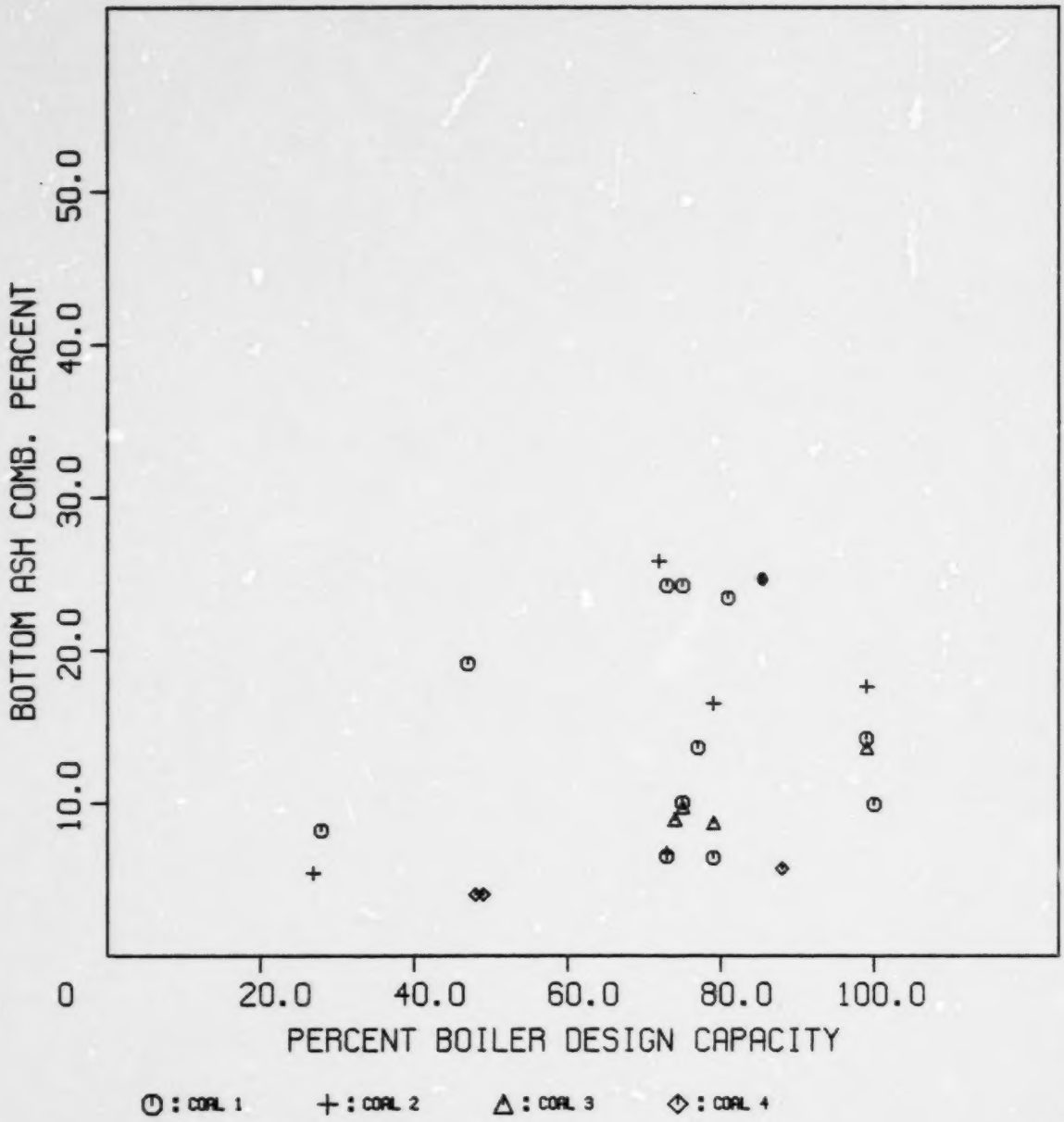


FIG. SITE B
BOTTOM ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

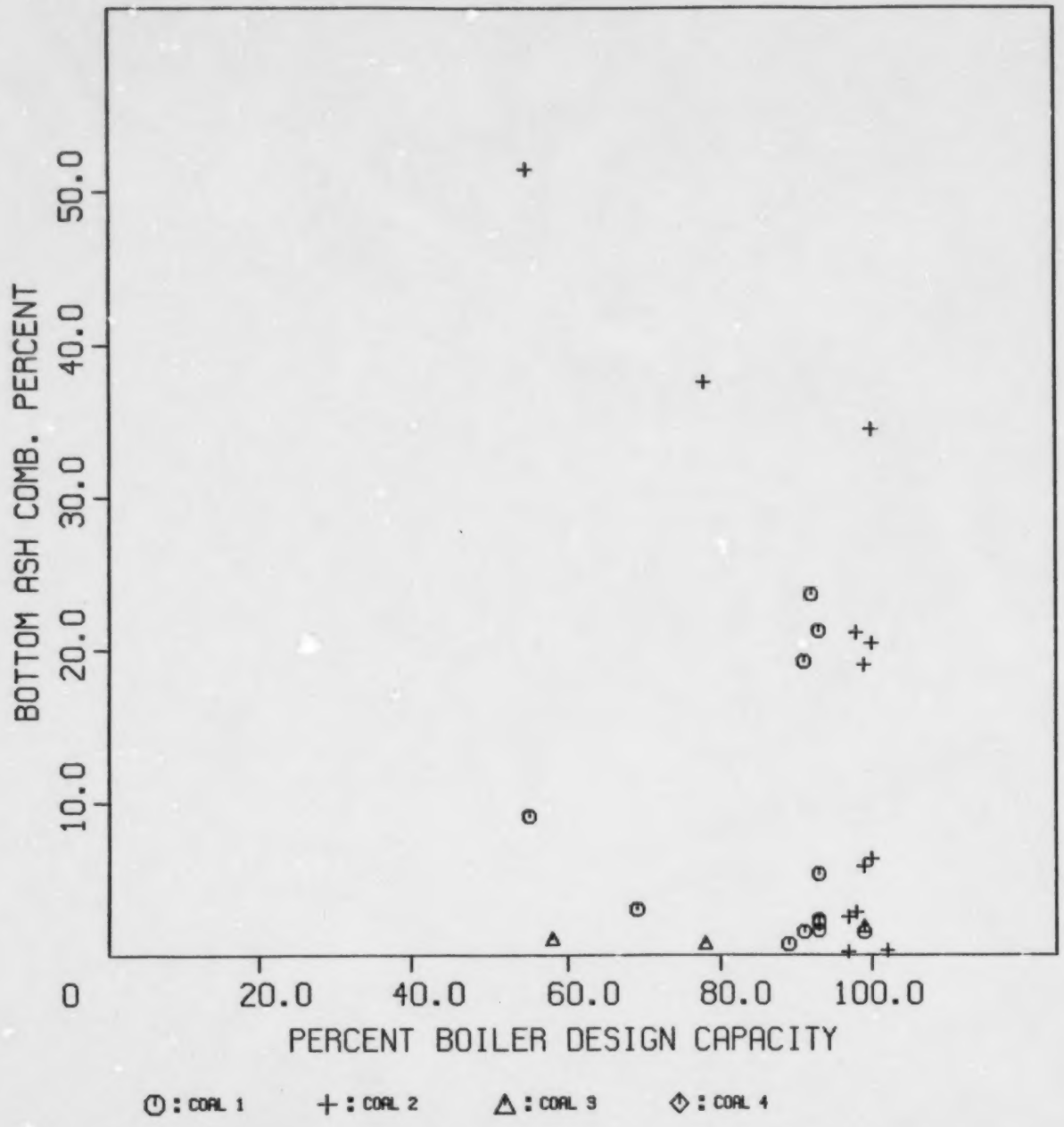


FIG. SITE C
BOTTOM ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

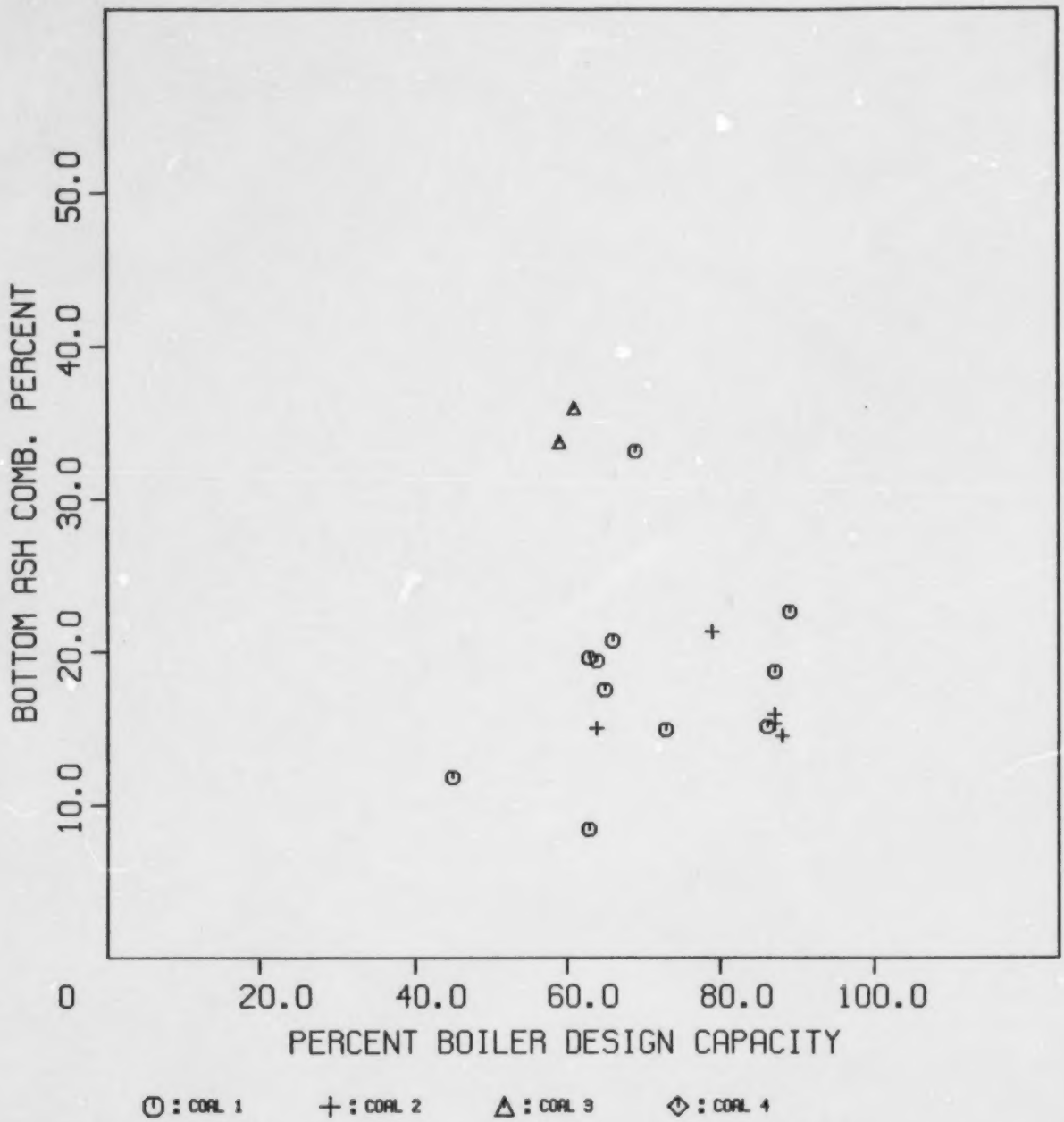


FIG. SITE D
BOTTOM ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

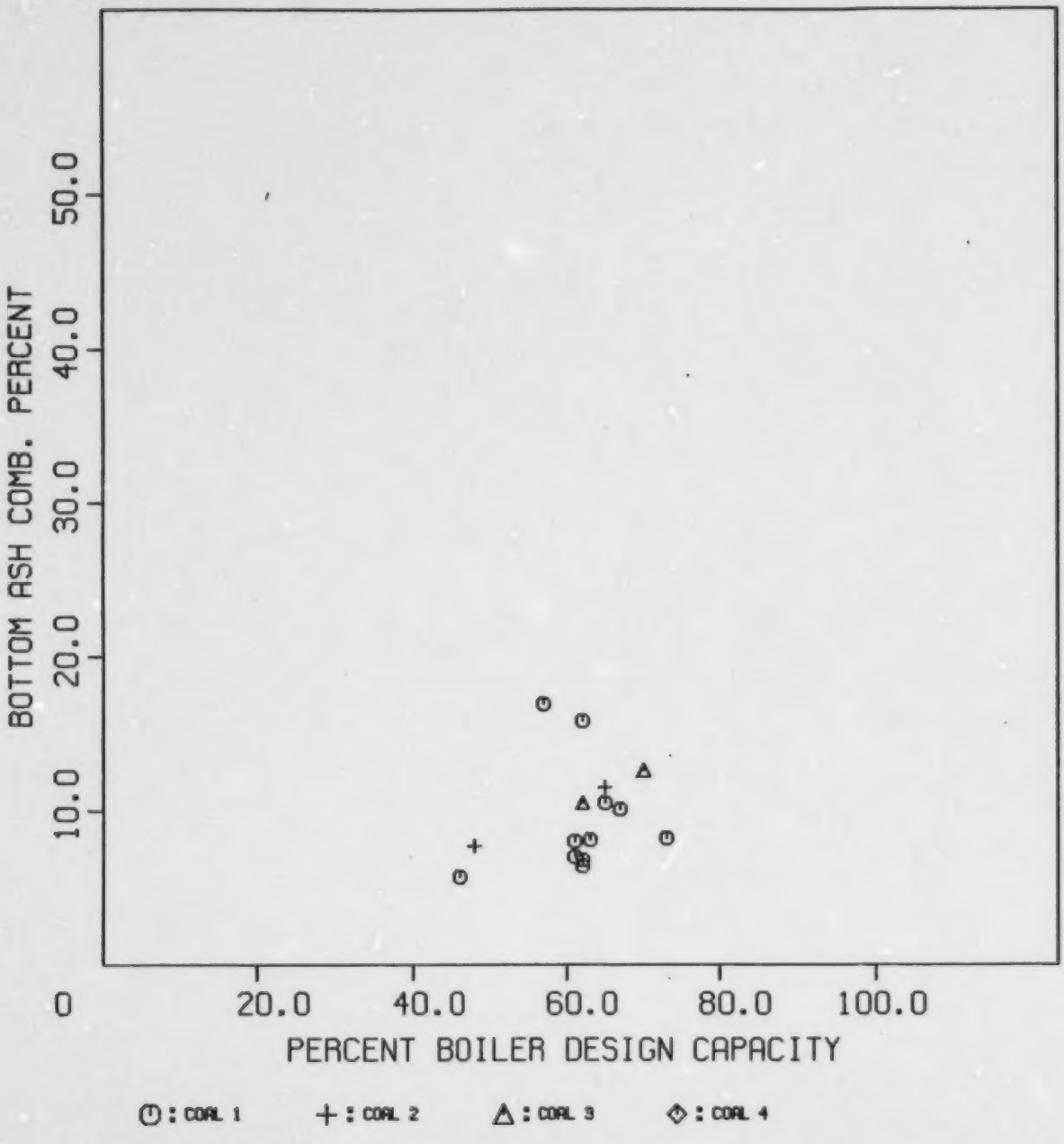


FIG. SITE E
BOTTOM ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

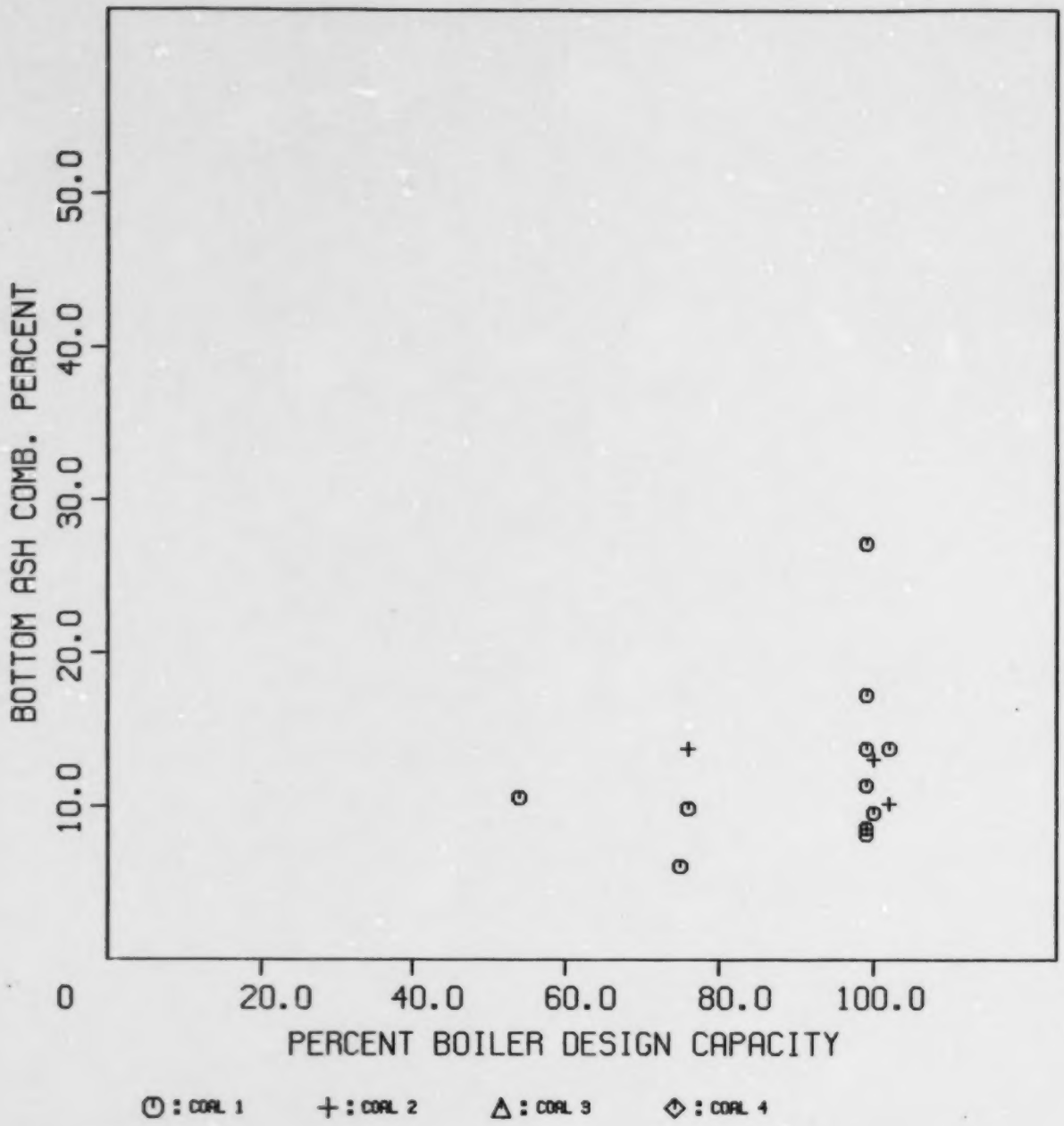


FIG. SITE F
BOTTOM ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

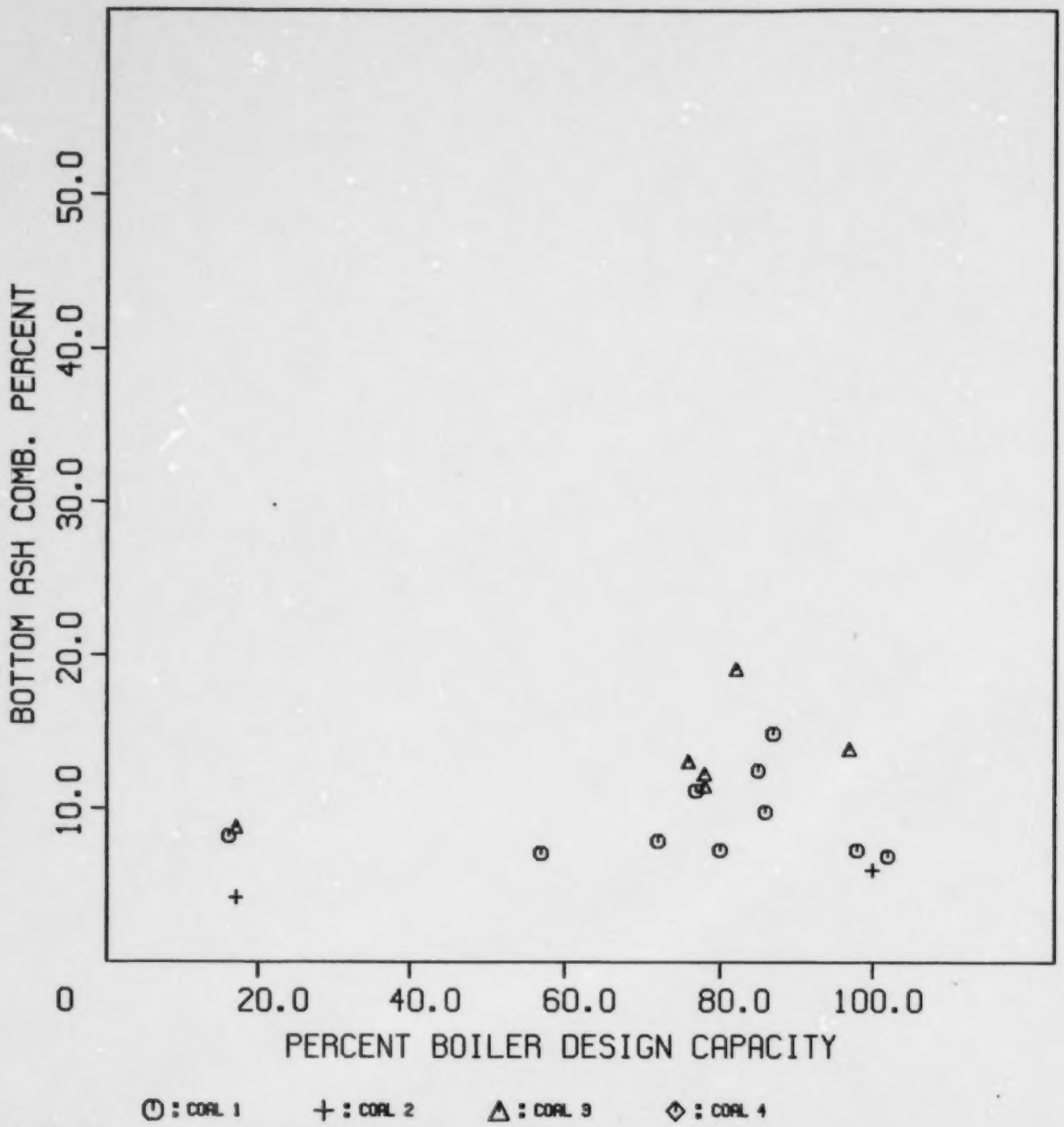


FIG. SITE G
BOTTOM ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

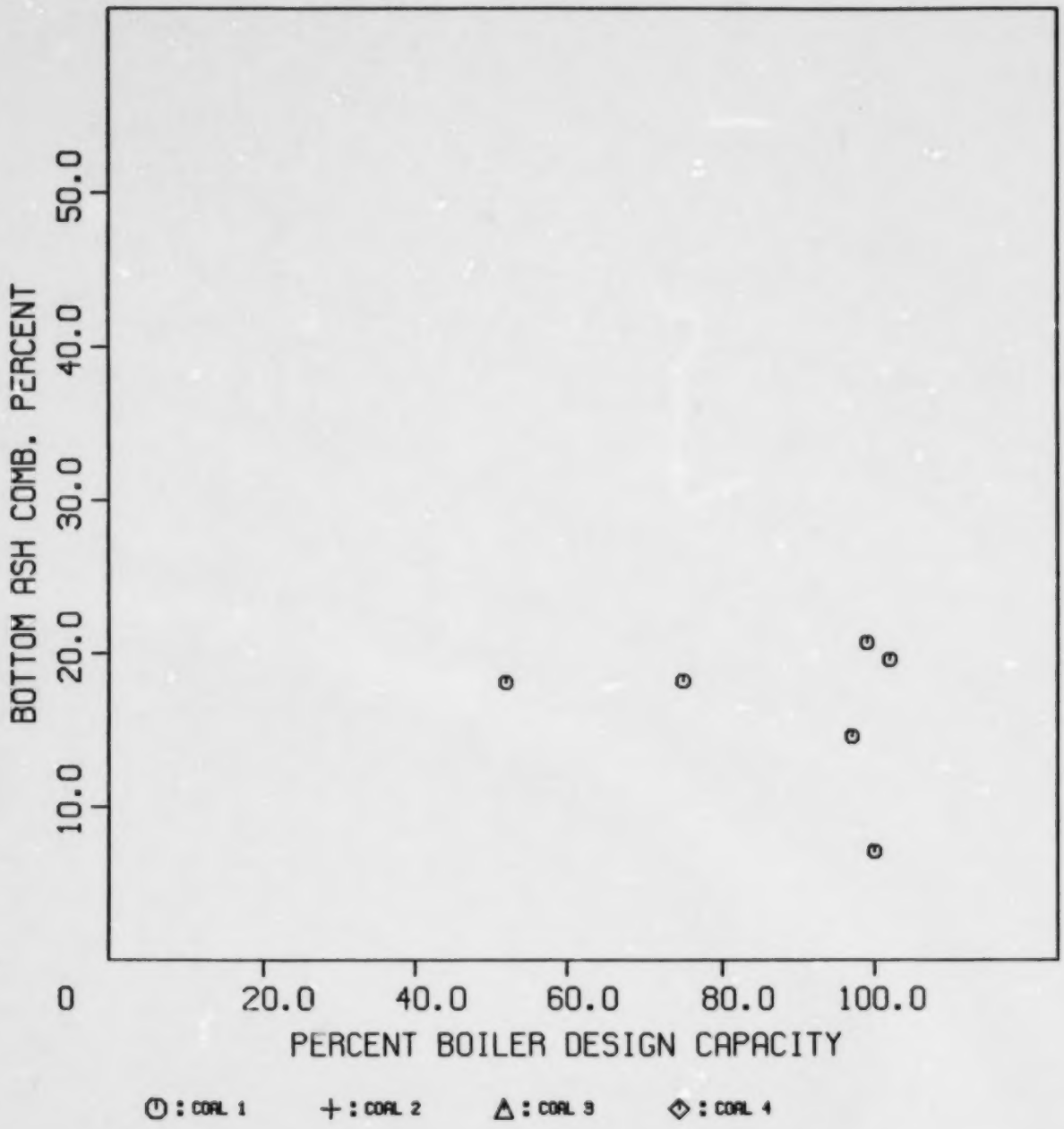


FIG. SITE H
BOTTOM ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

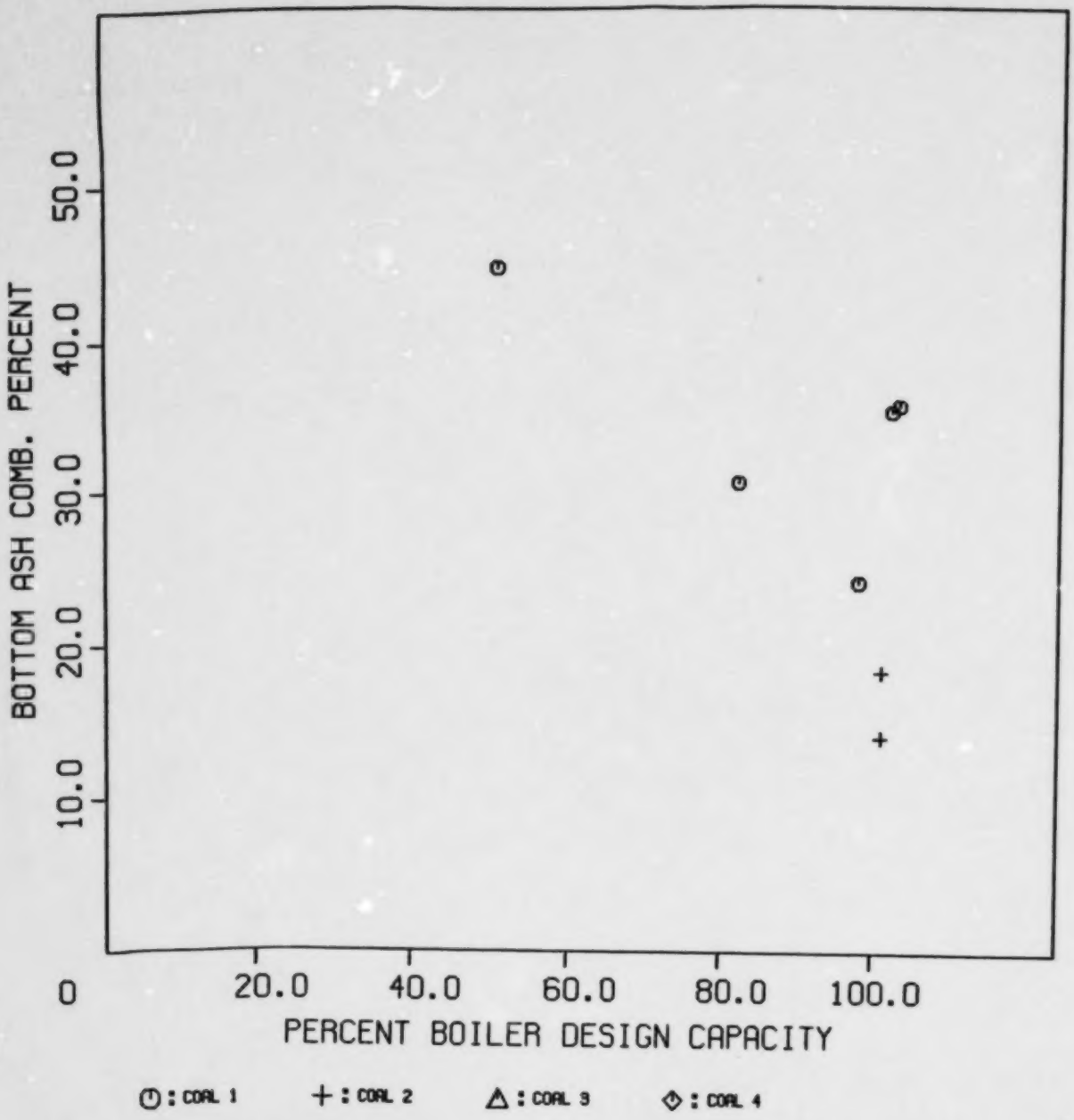


FIG. SITE I
BOTTOM ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

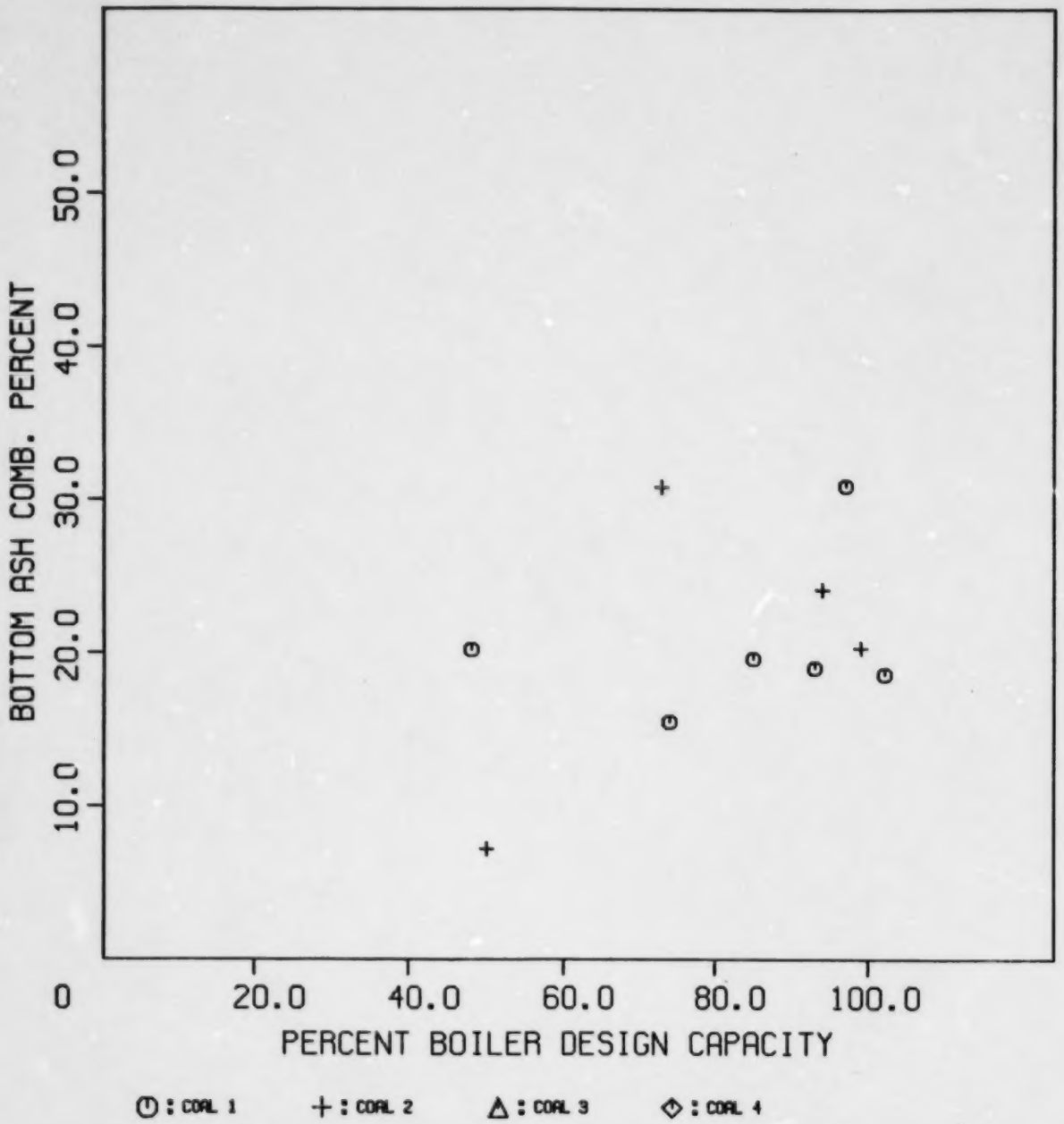


FIG. SITE J
BOTTOM ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

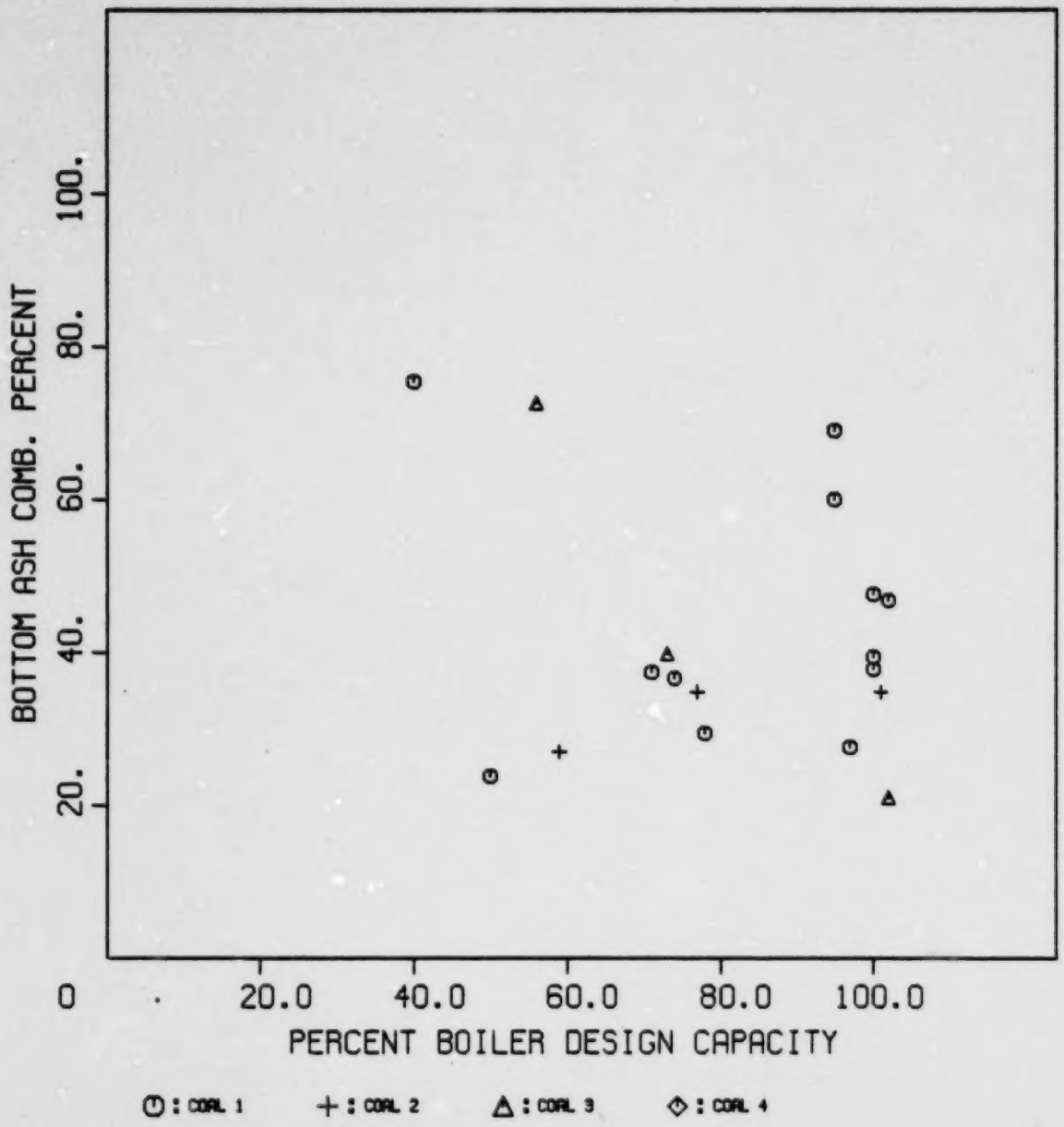


FIG. SITE K
BOTTOM ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KV84-15800-554

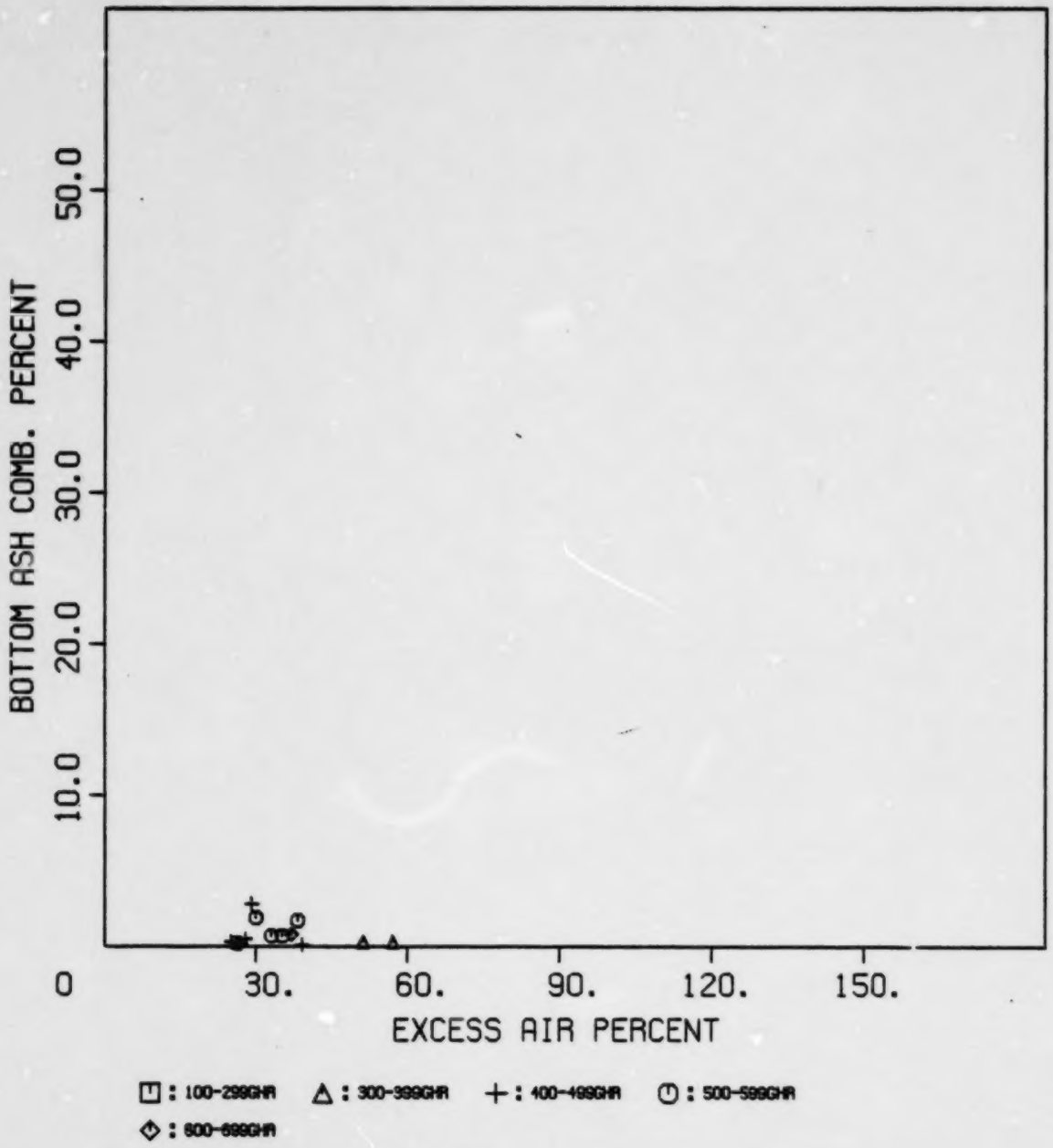


FIG. SITE A
BOTTOM ASH COMB. VS. EXCESS AIR

KYB4-15900-554

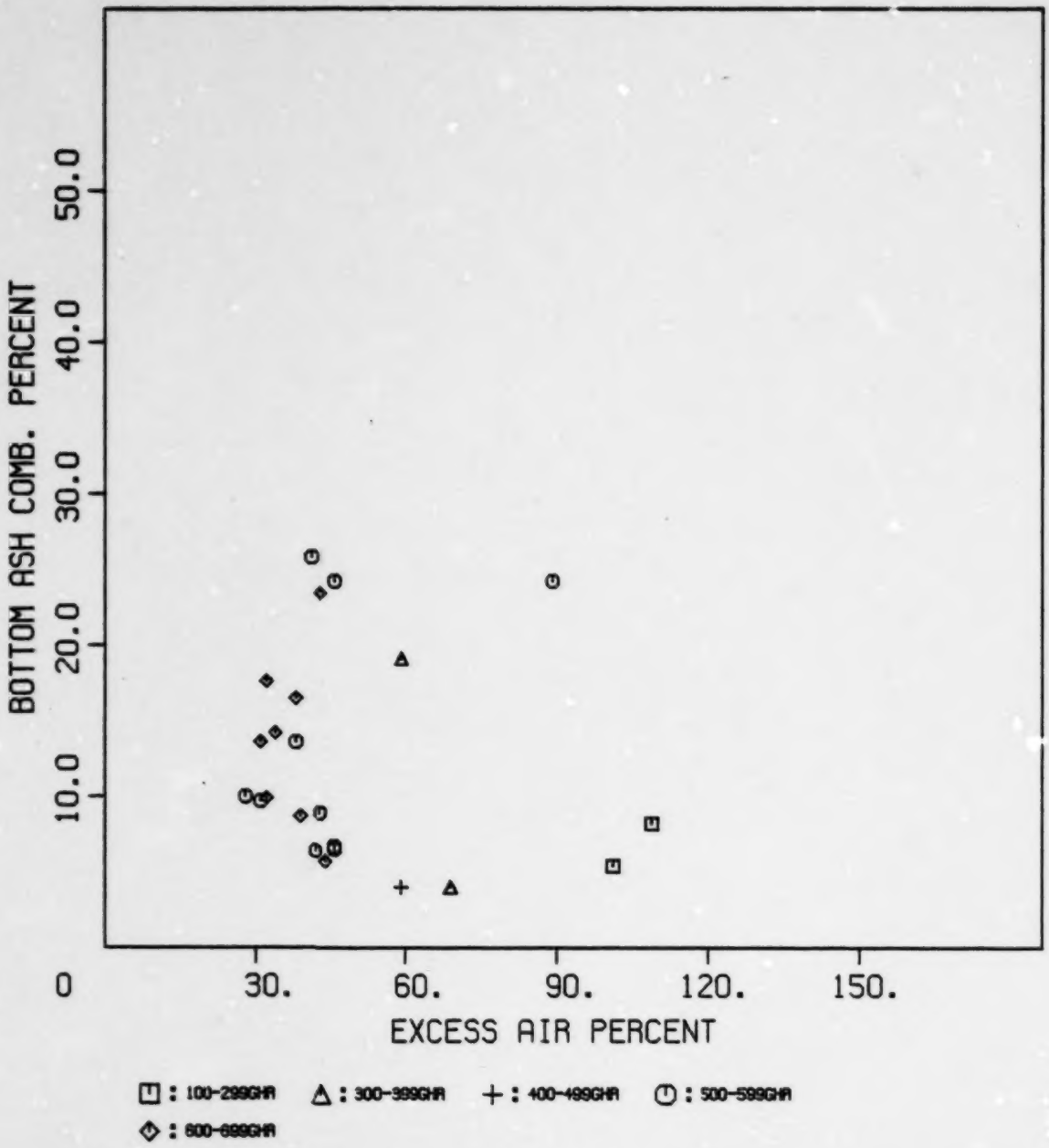


FIG. SITE B
BOTTOM ASH COMB. VS. EXCESS AIR

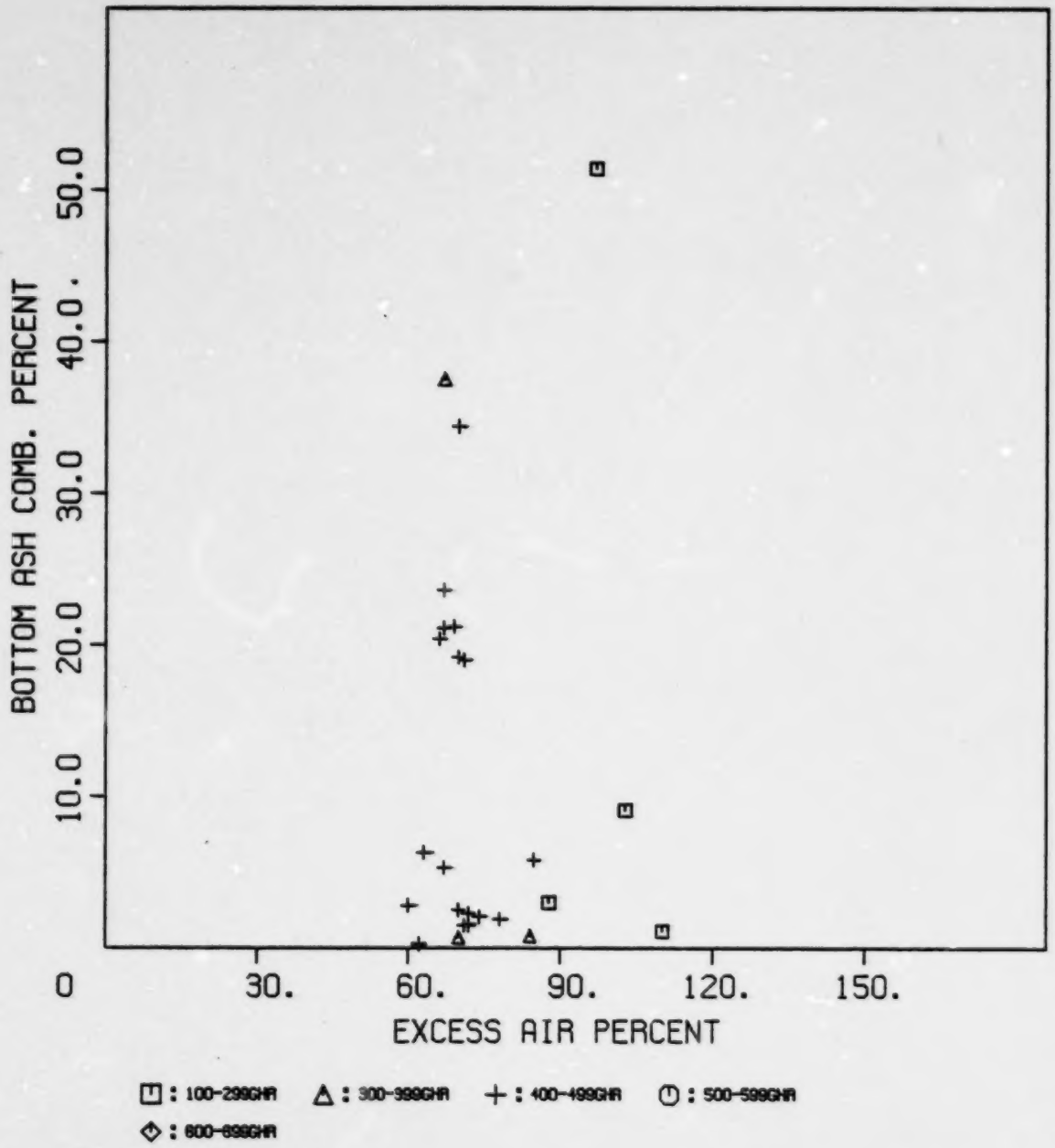


FIG. SITE C
BOTTOM ASH COMB. VS. EXCESS AIR

KVB4-15900-554

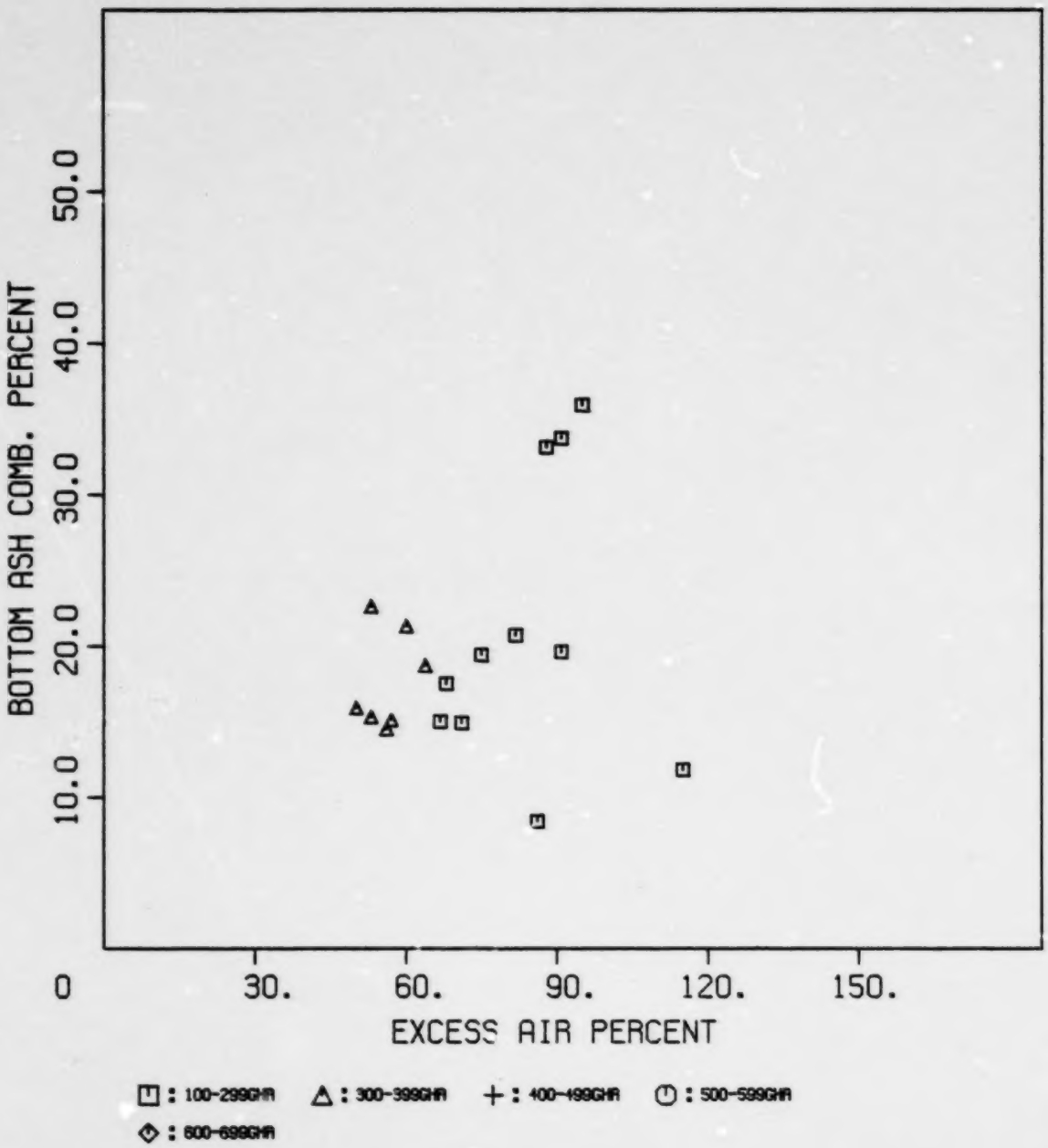


FIG. SITE D
BOTTOM ASH COMB. VS. EXCESS AIR

KVB4-15900-554

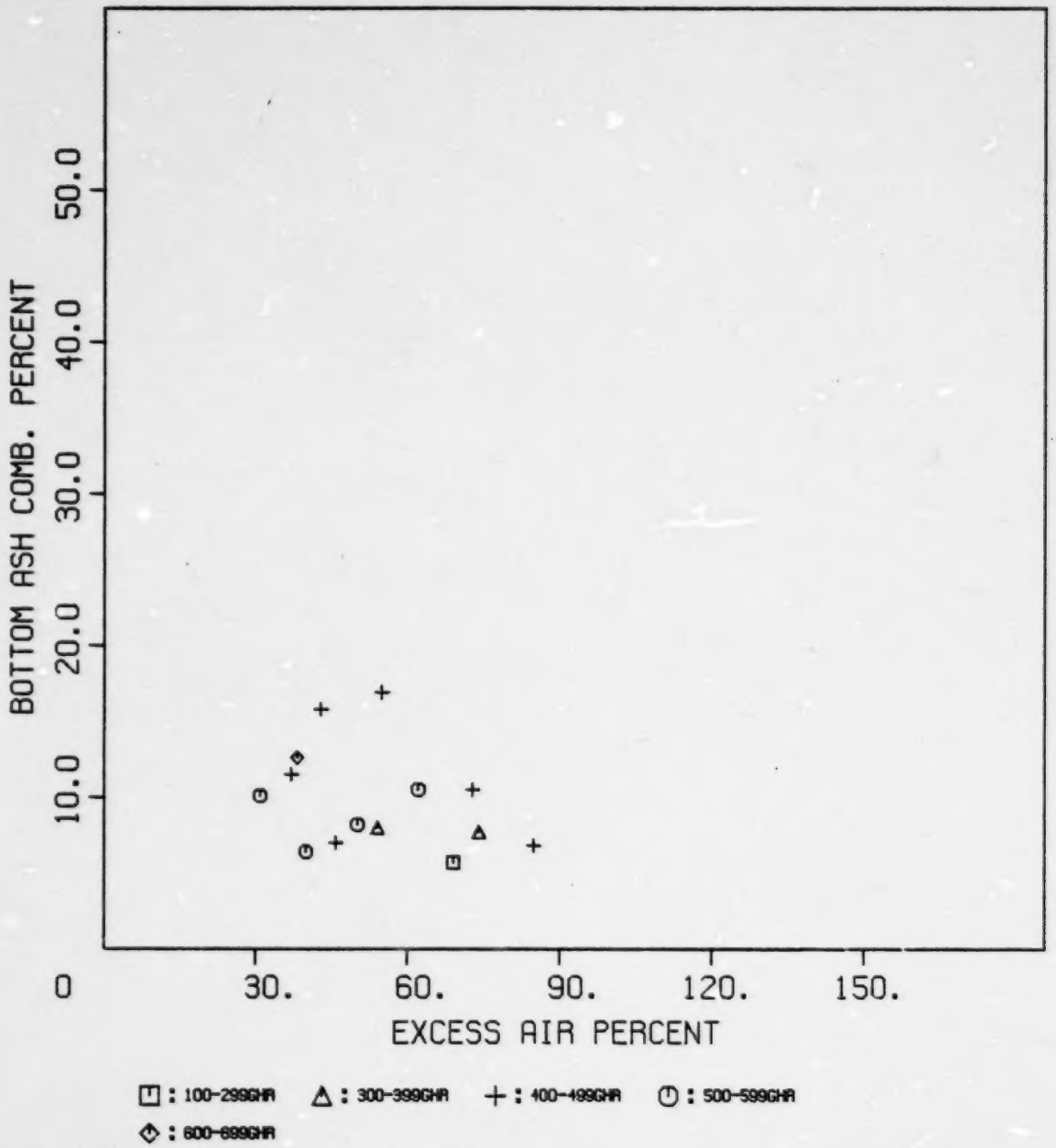


FIG. SITE E
BOTTOM ASH COMB. VS. EXCESS AIR

KVB4-15900-554

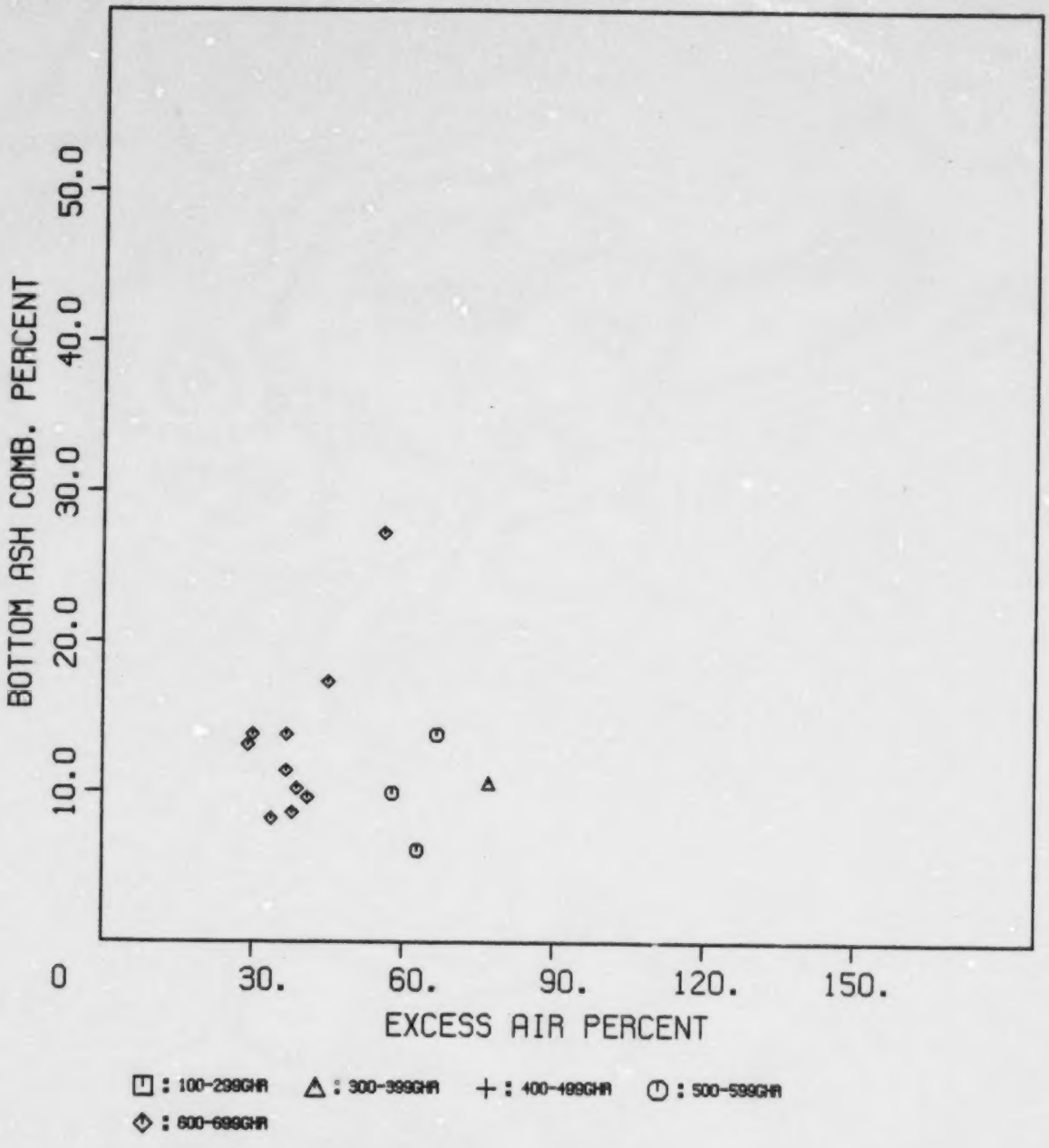


FIG. SITE F
BOTTOM ASH COMB. VS. EXCESS AIR

KVB4-15900-554

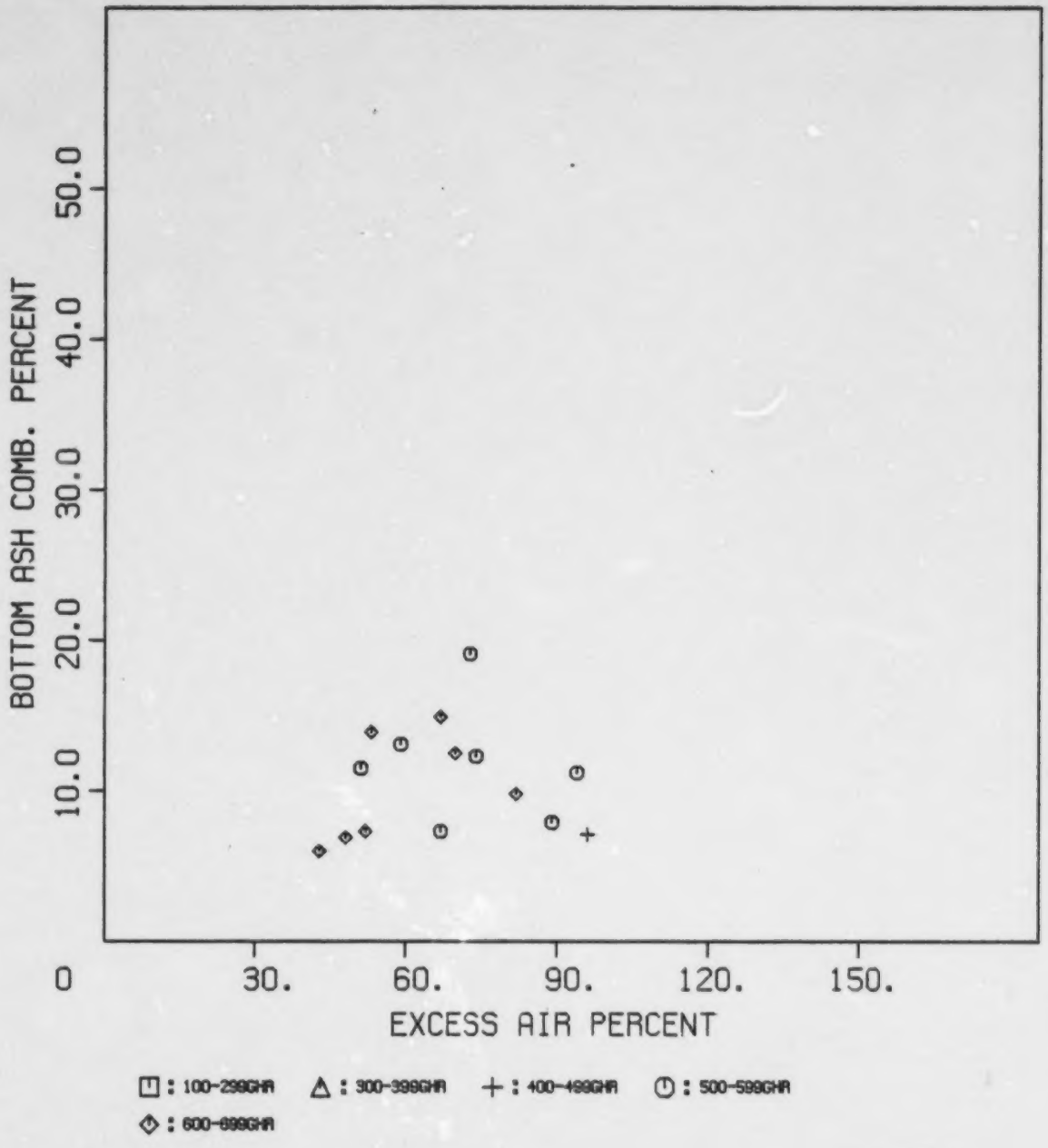


FIG. SITE G
BOTTOM ASH COMB. VS. EXCESS AIR

KVB4-15900-554

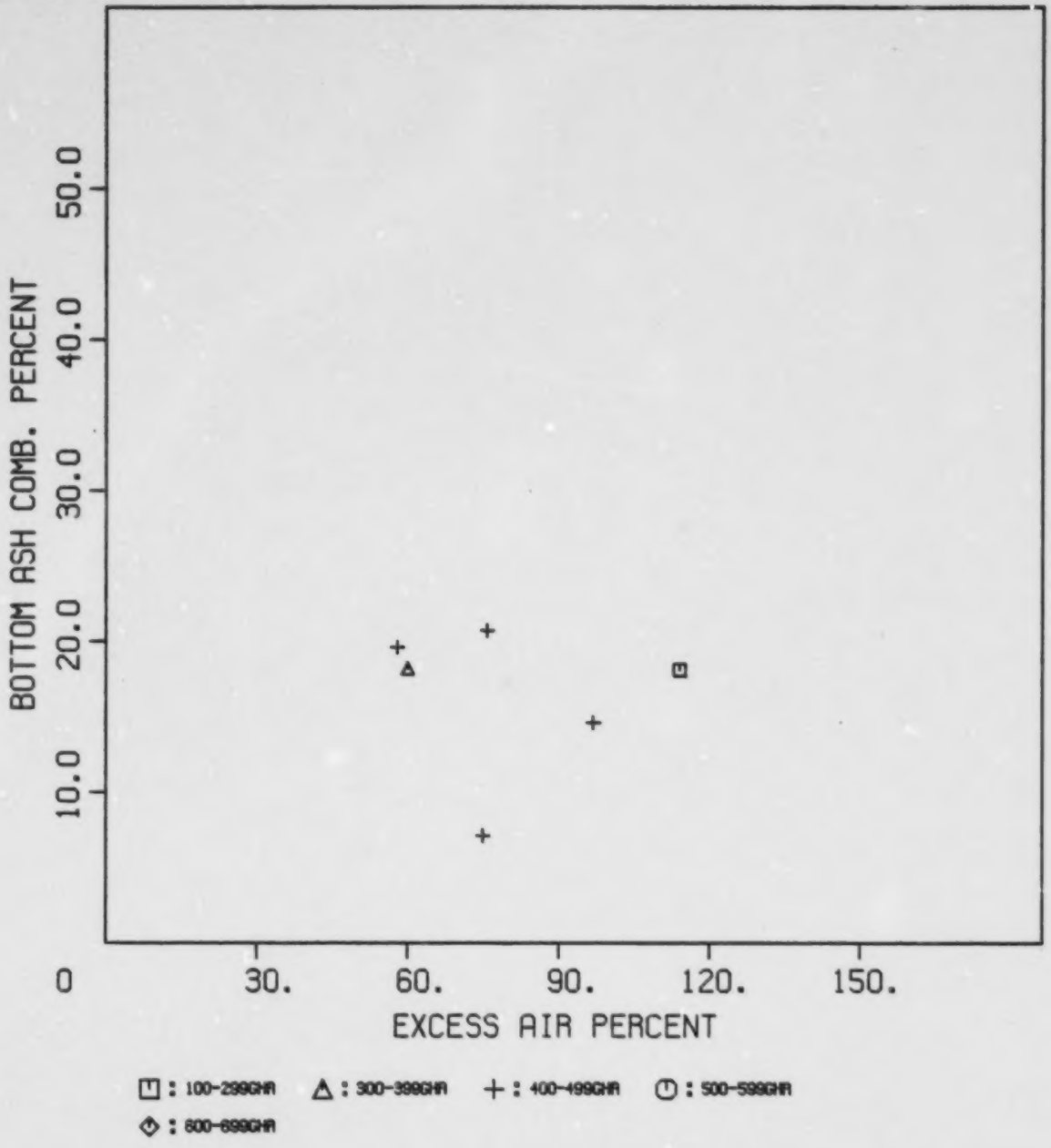


FIG. SITE H
BOTTOM ASH COMB. VS. EXCESS AIR

KVB4-15900-554

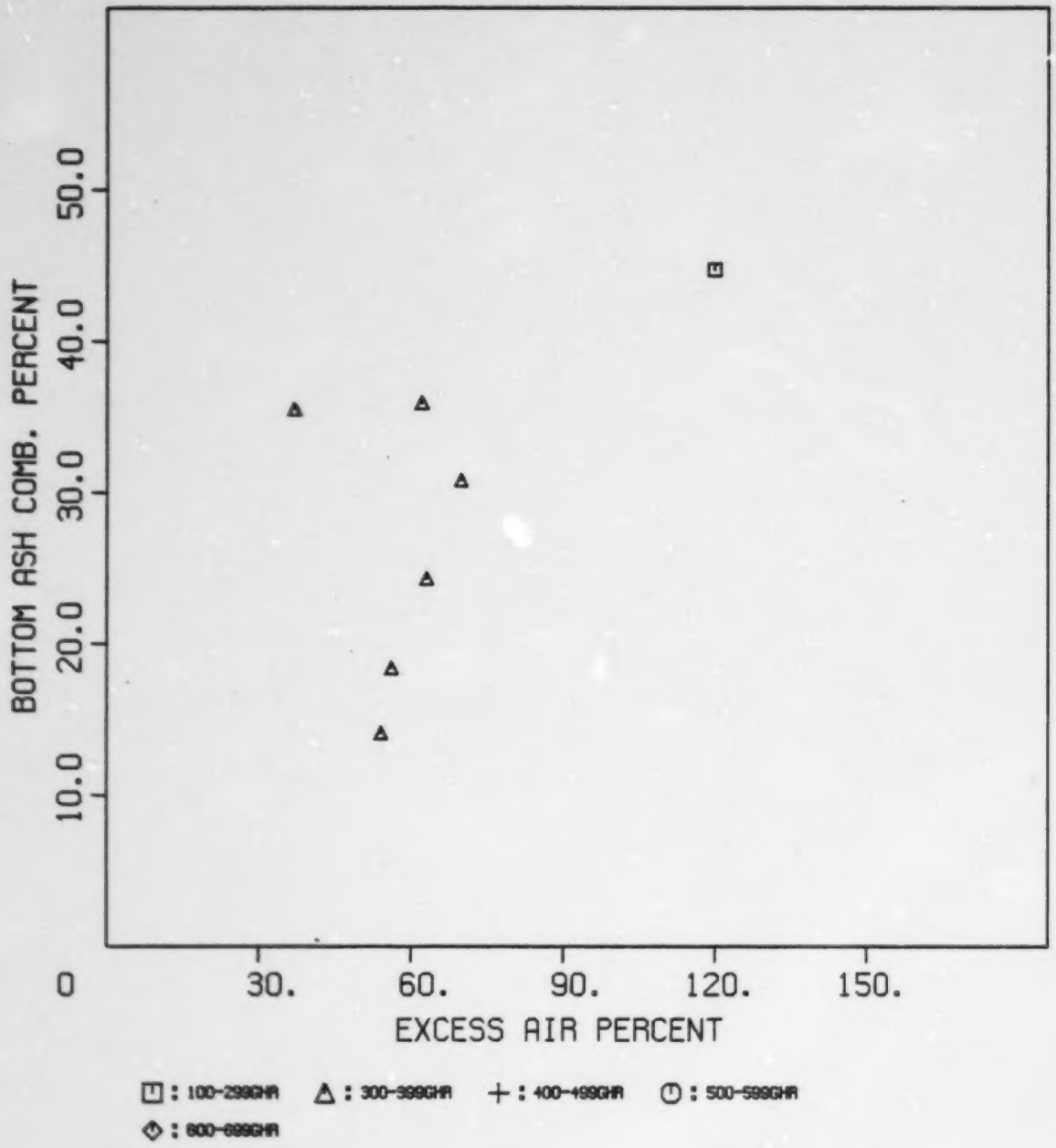


FIG. SITE I
BOTTOM ASH COMB. VS. EXCESS AIR

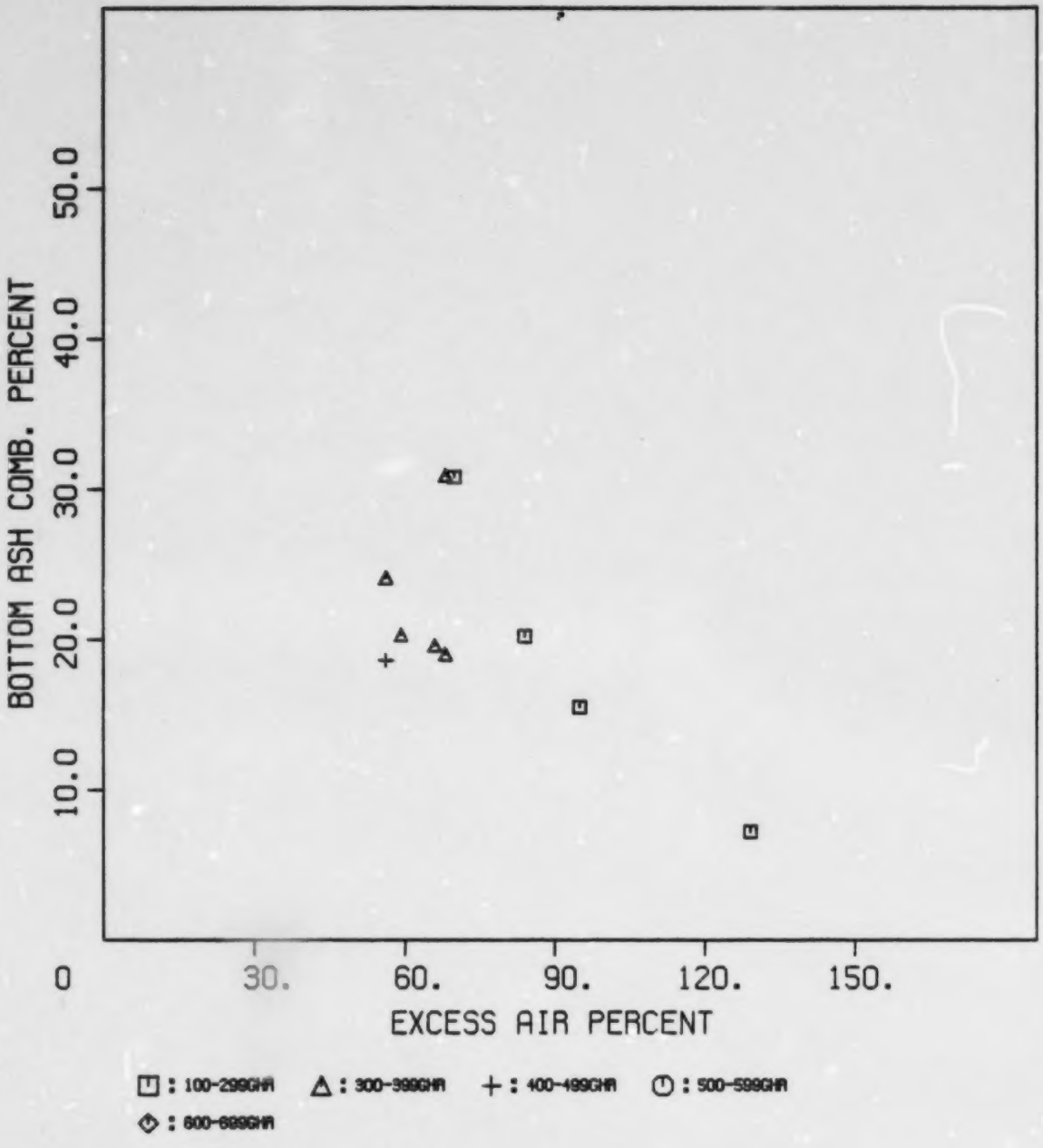


FIG. SITE J
BOTTOM ASH COMB. VS. EXCESS AIR

KVB4-15900-554

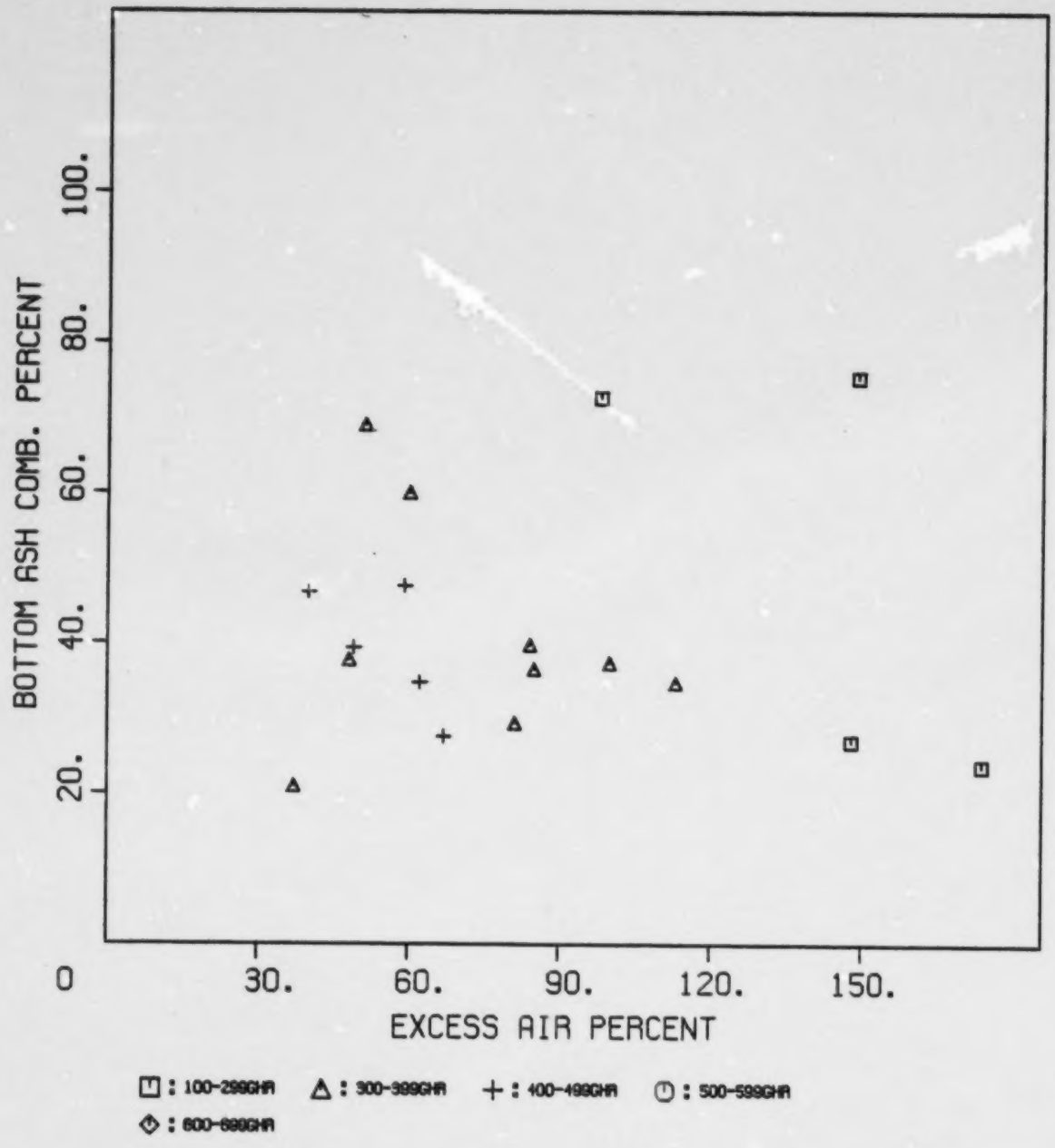


FIG. SITE K
BOTTOM ASH COMB. VS. EXCESS AIR

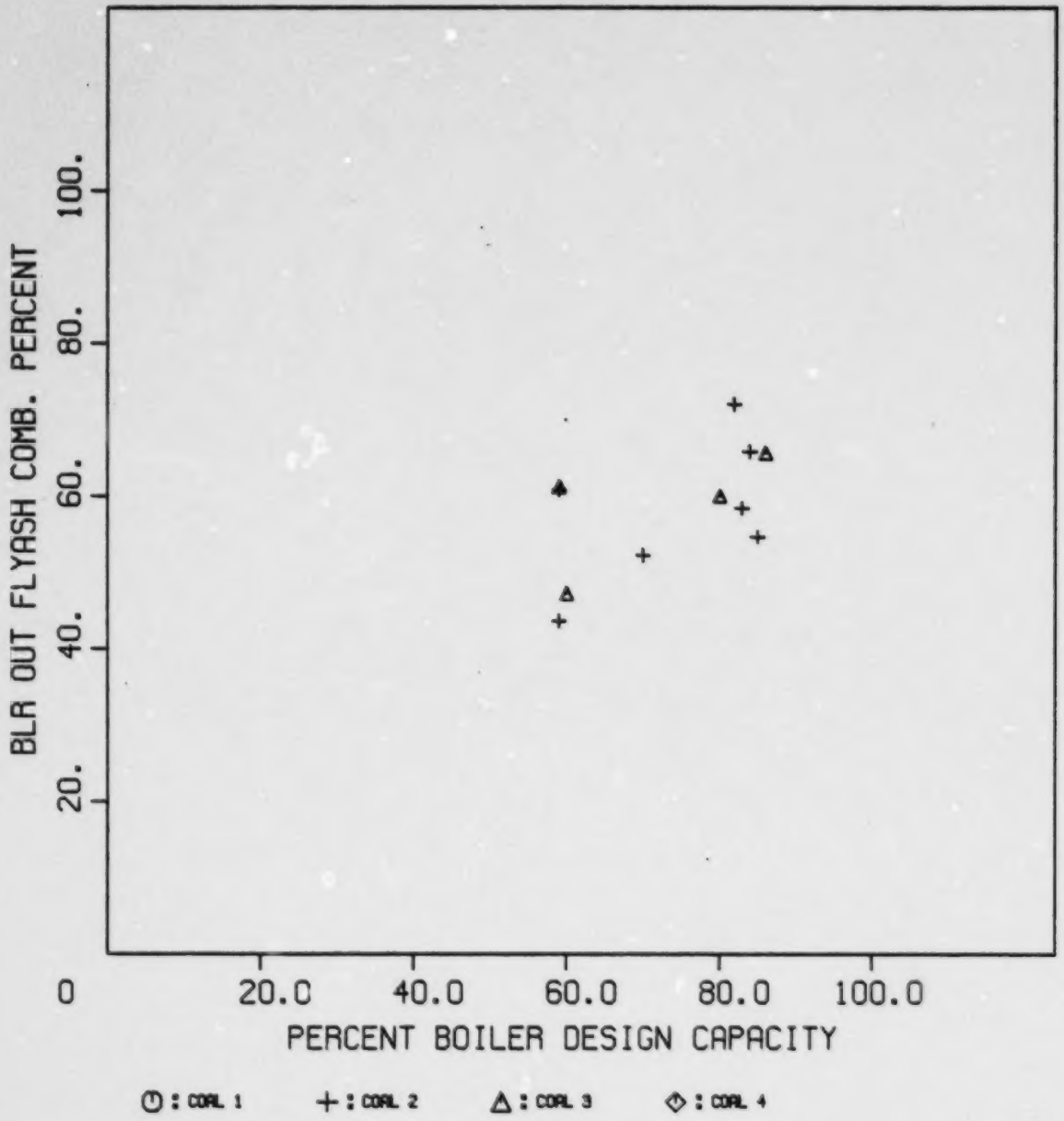


FIG. SITE A
BLR OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

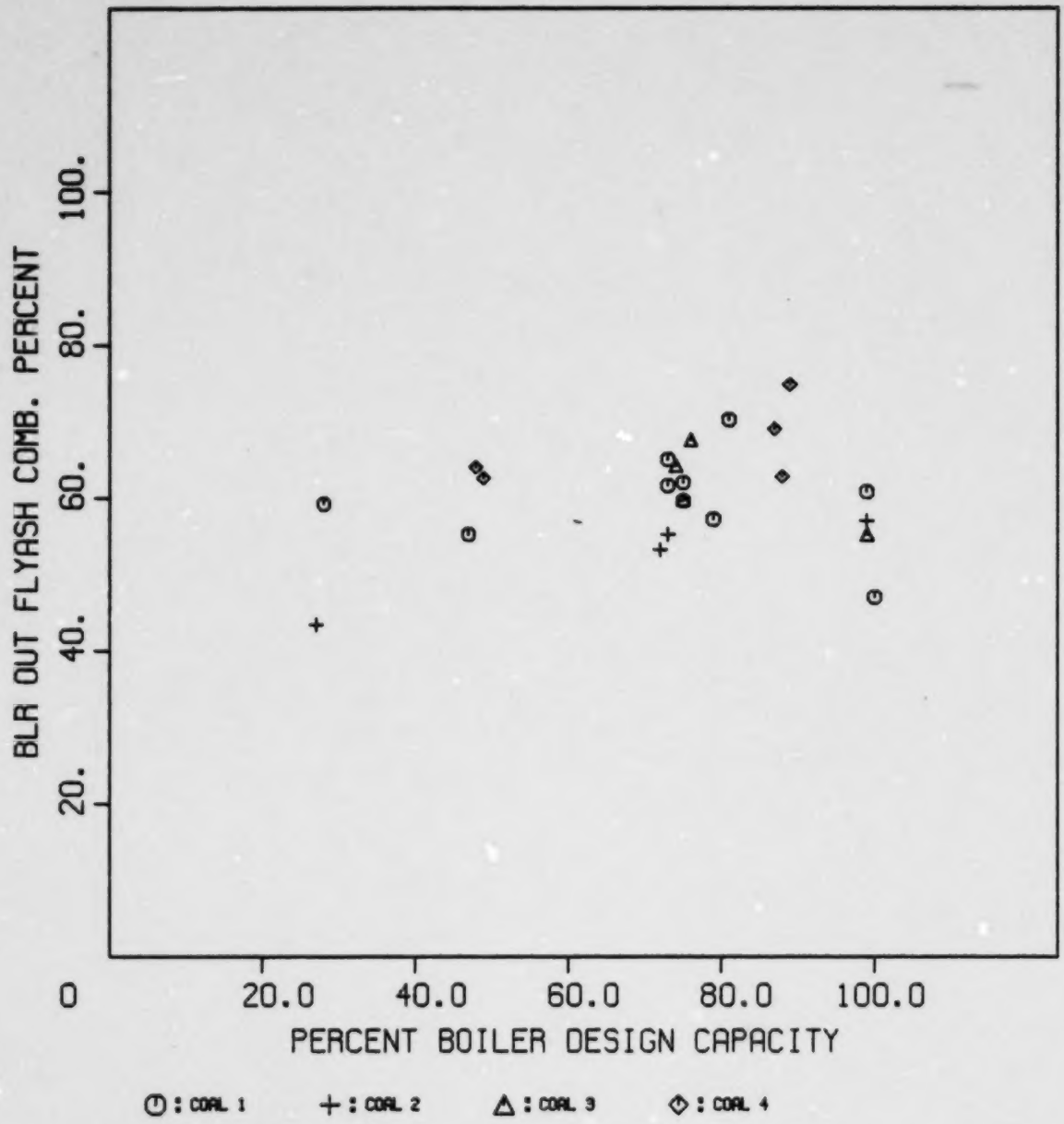


FIG. SITE B
BLR OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KV84-15900-554

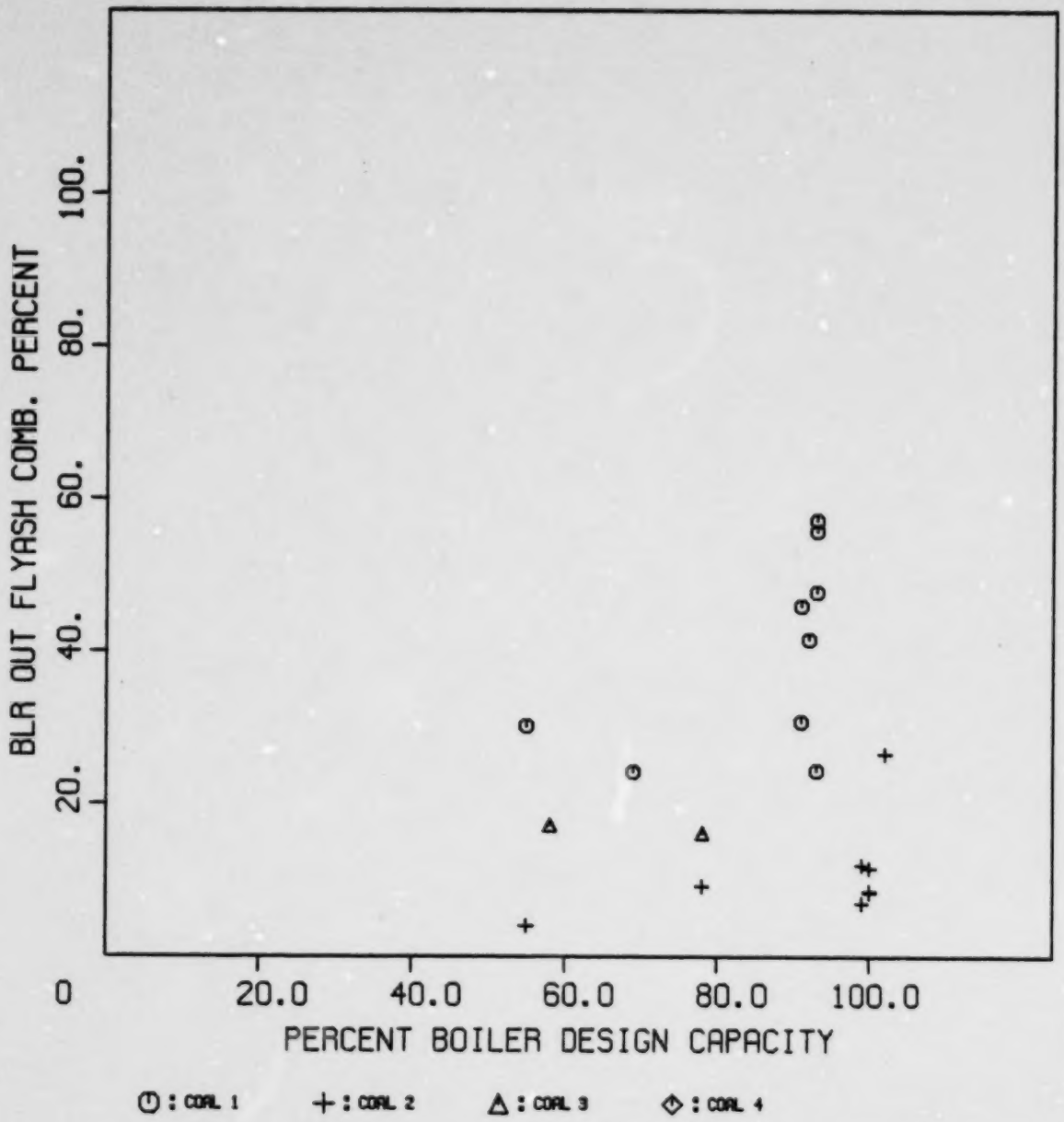


FIG. SITE C

BLR OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

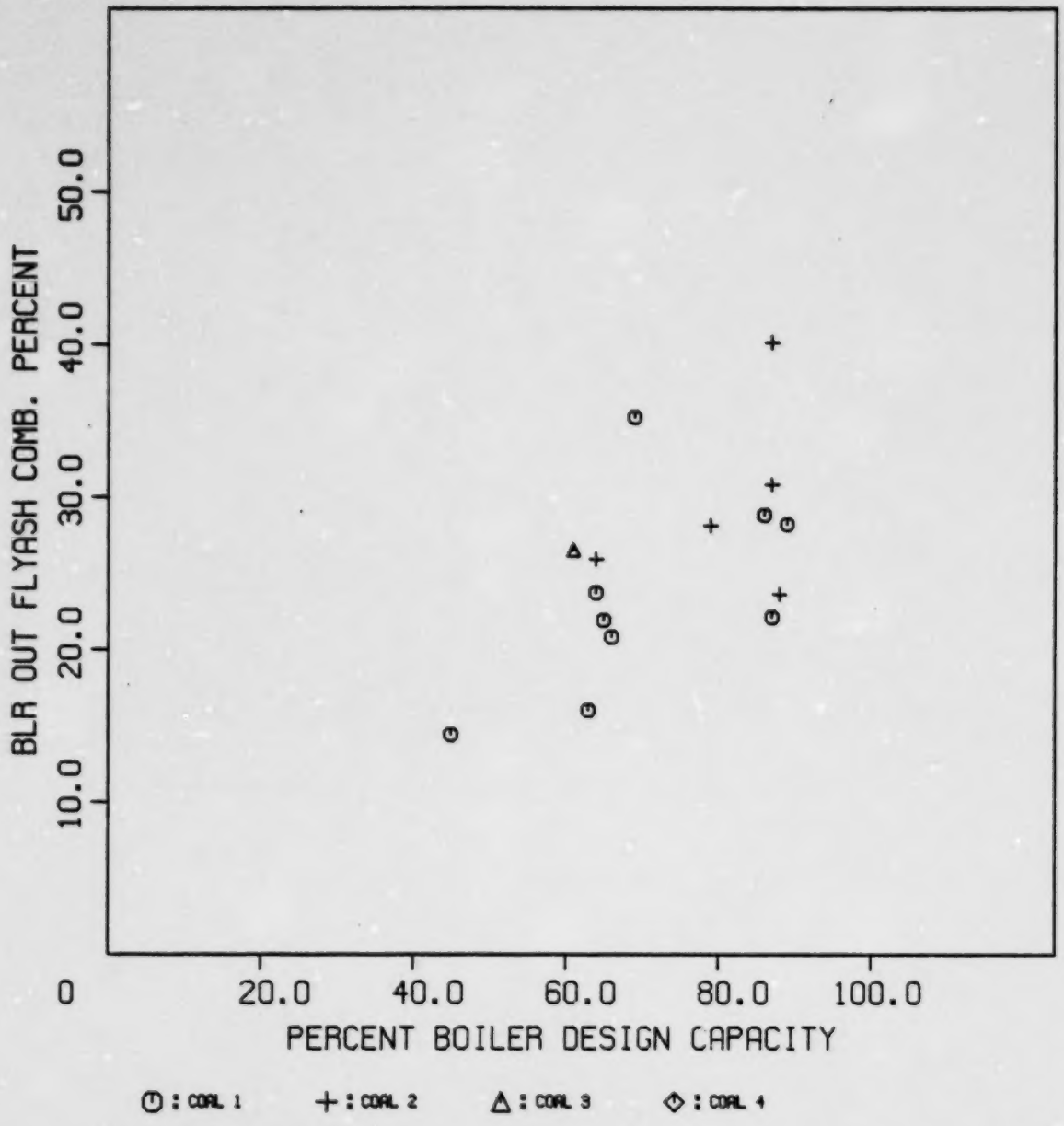


FIG. SITE D
BLR OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

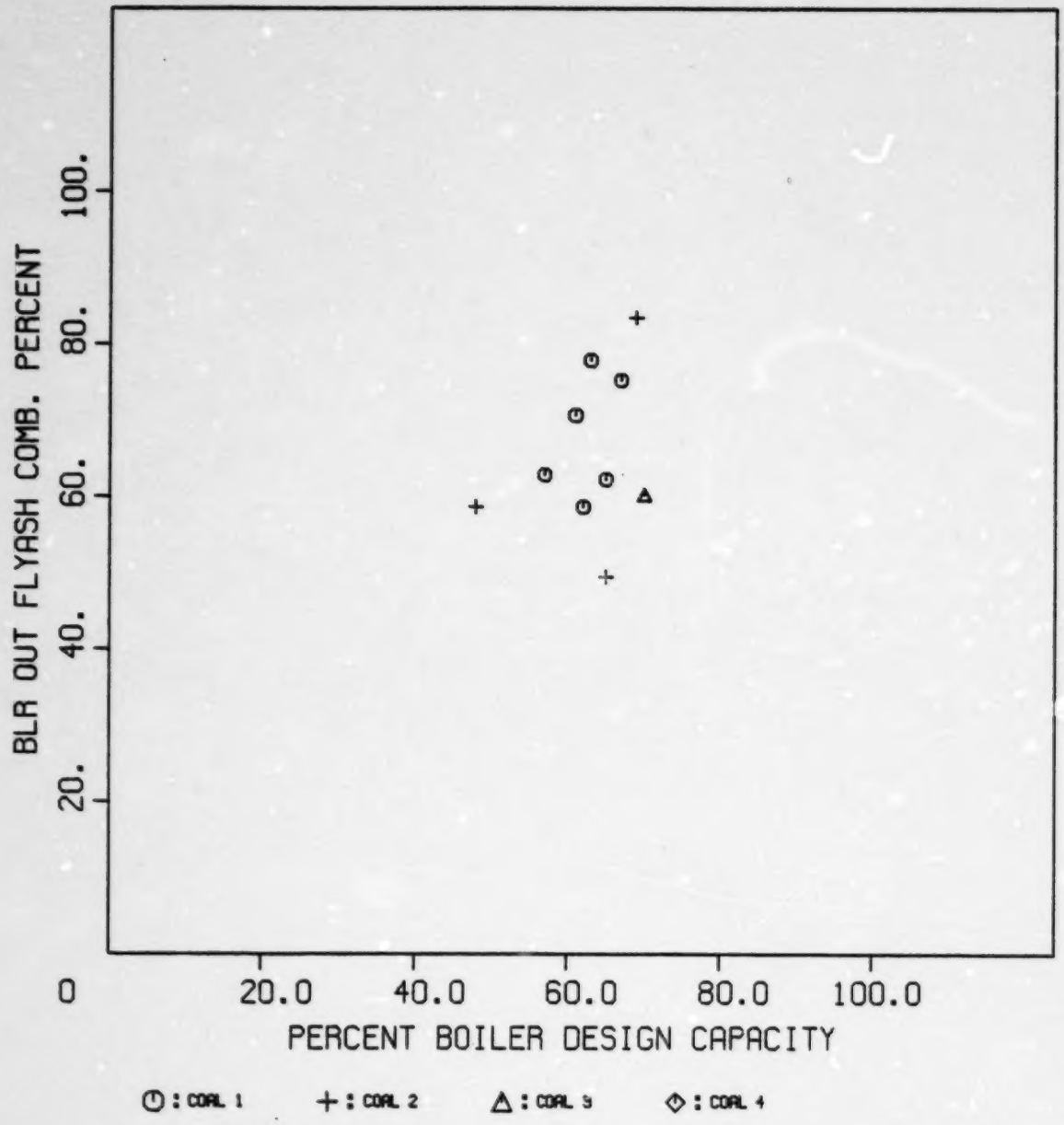


FIG. SITE E

BLR OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

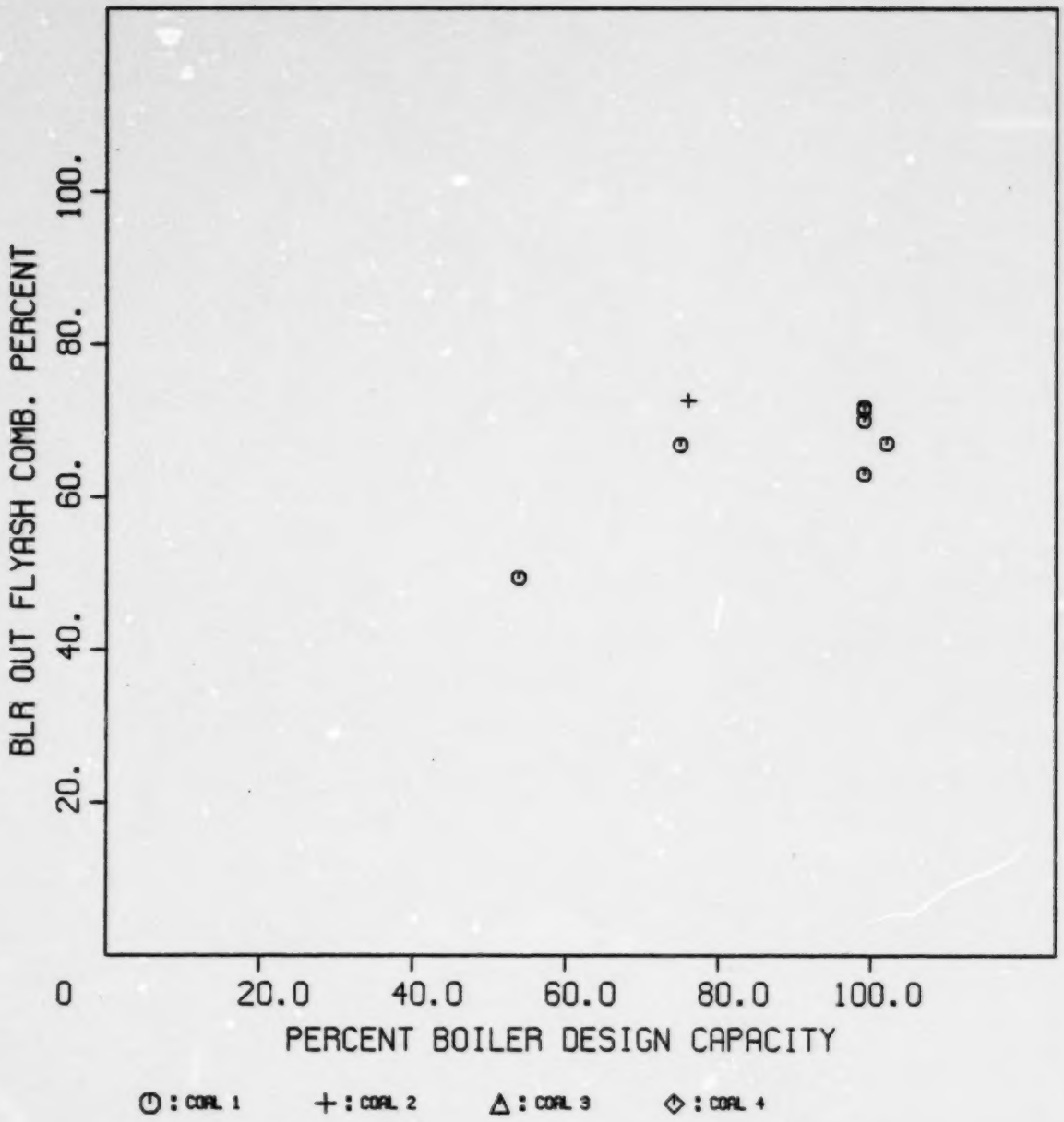


FIG. SITE F

BLR OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

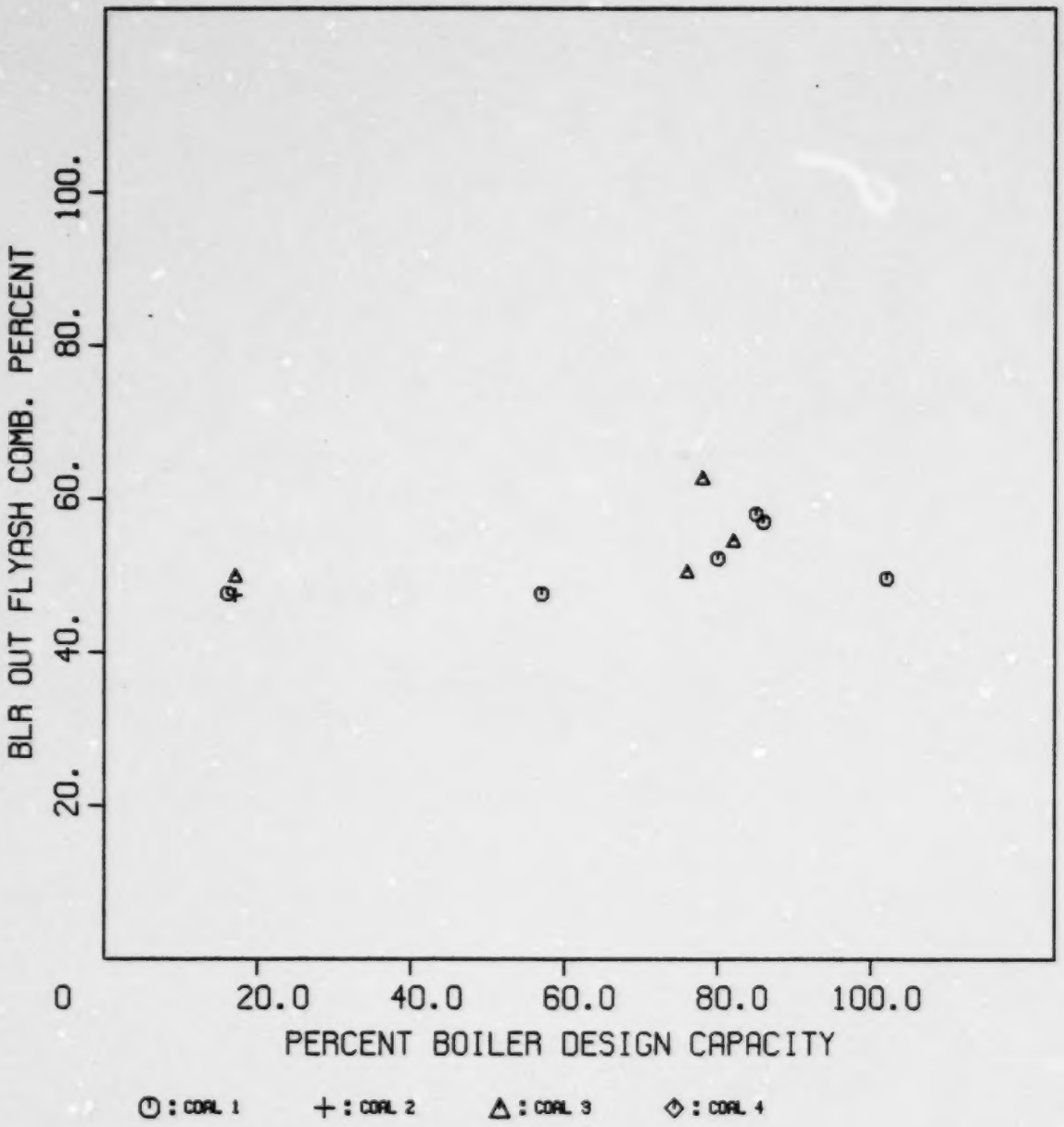


FIG. SITE G
BLR OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

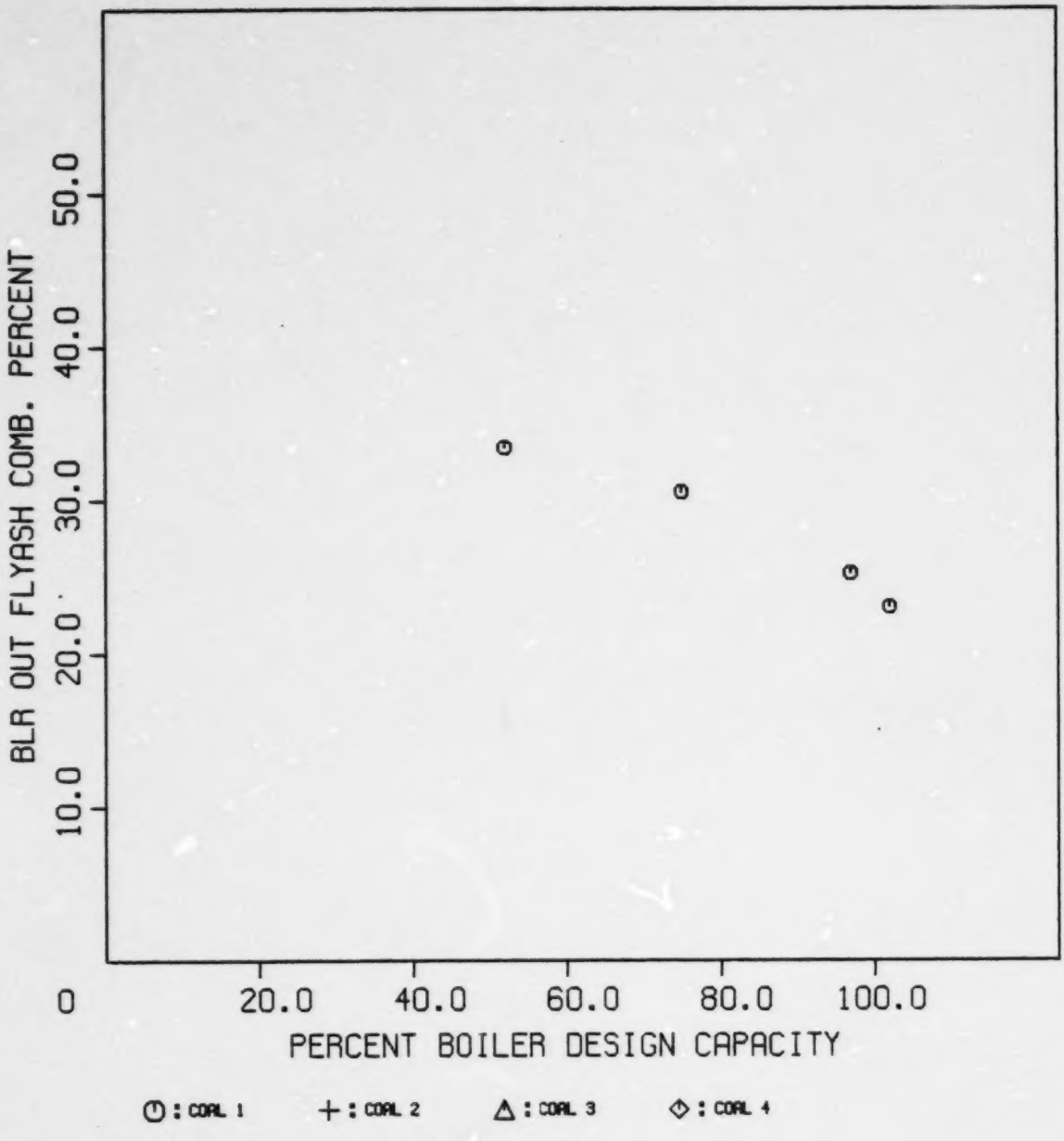


FIG. SITE H

BLR OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

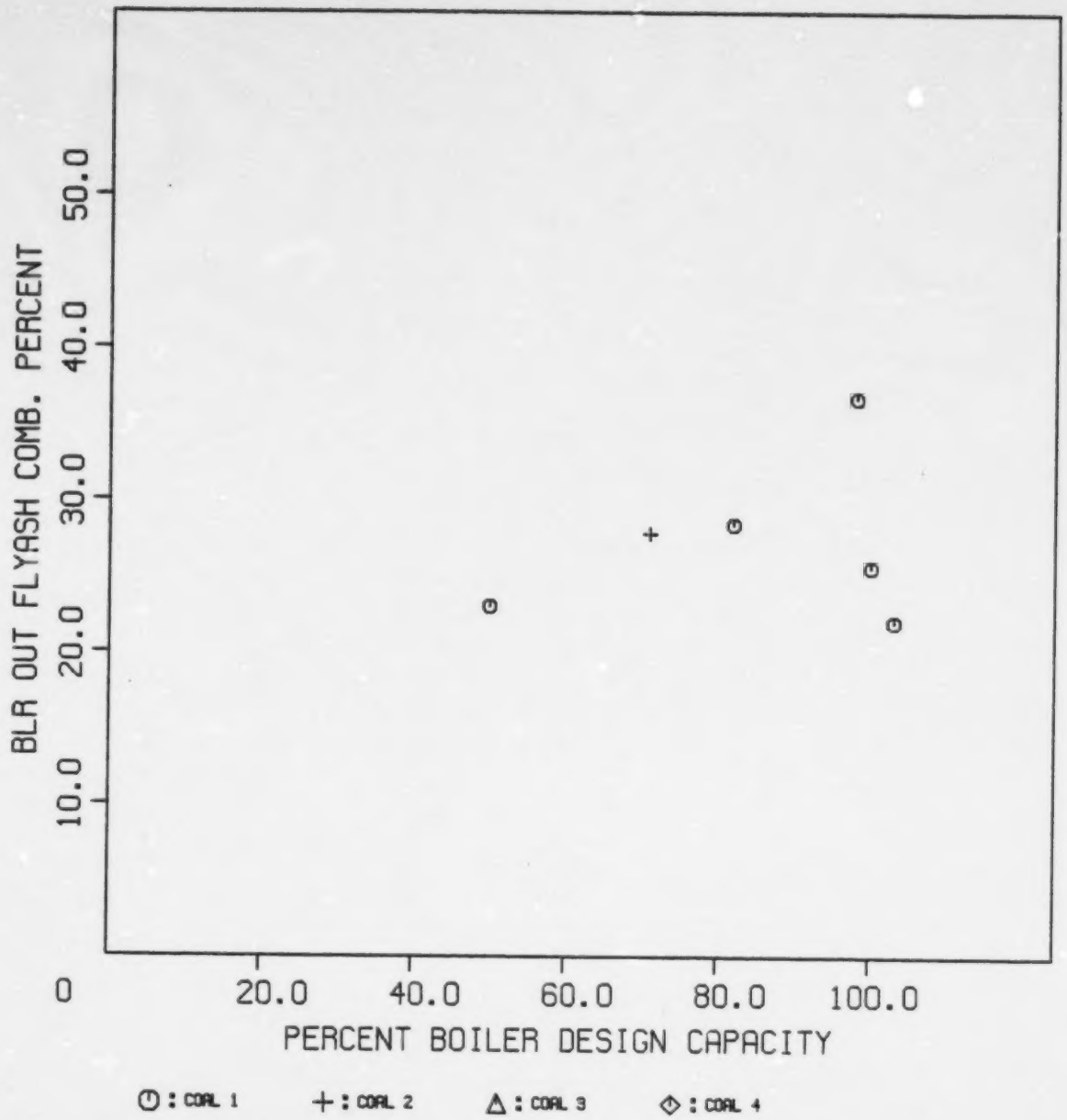


FIG. SITE I

BLR OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

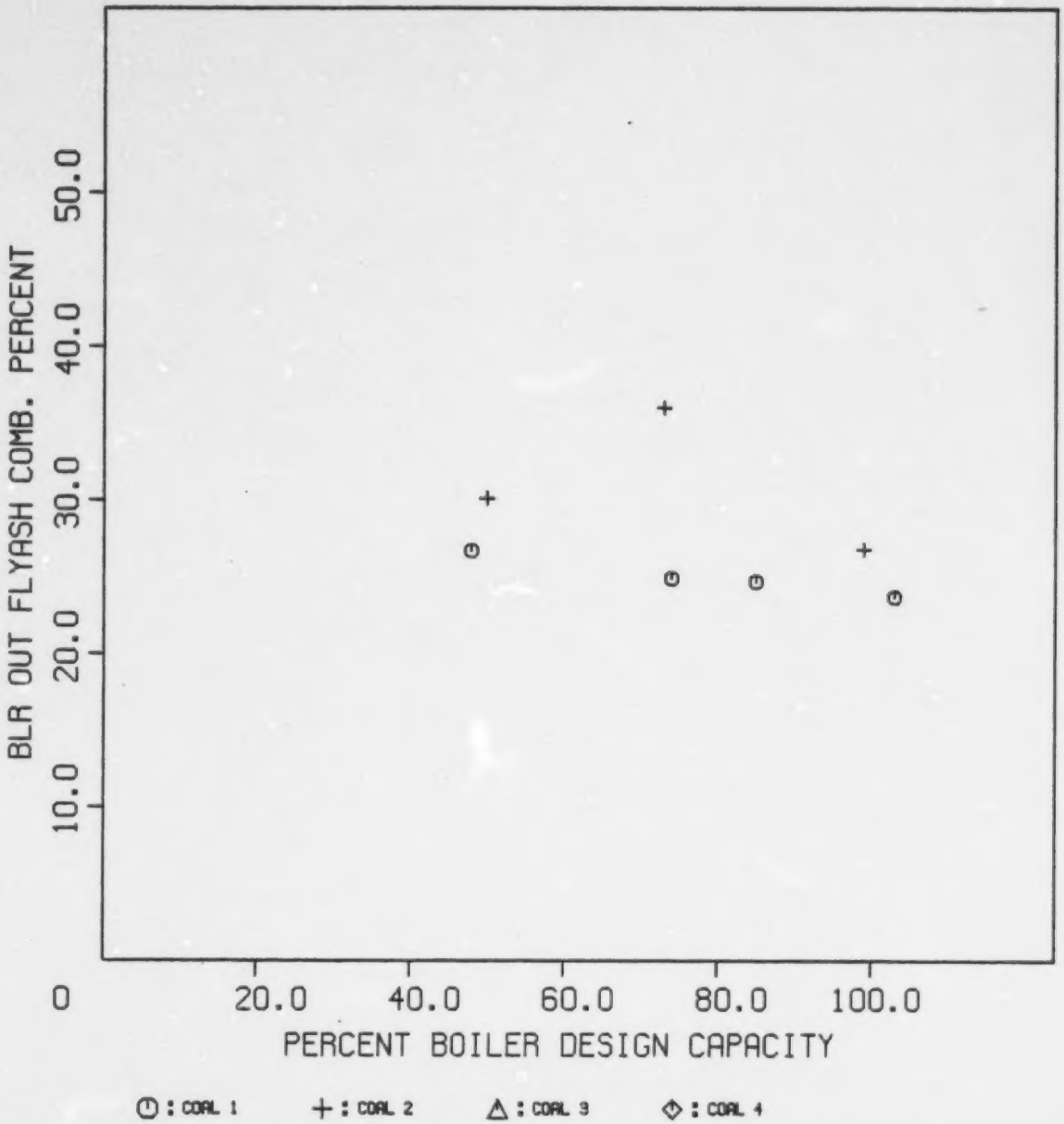


FIG. SITE J
BLR OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KV84-15900-554

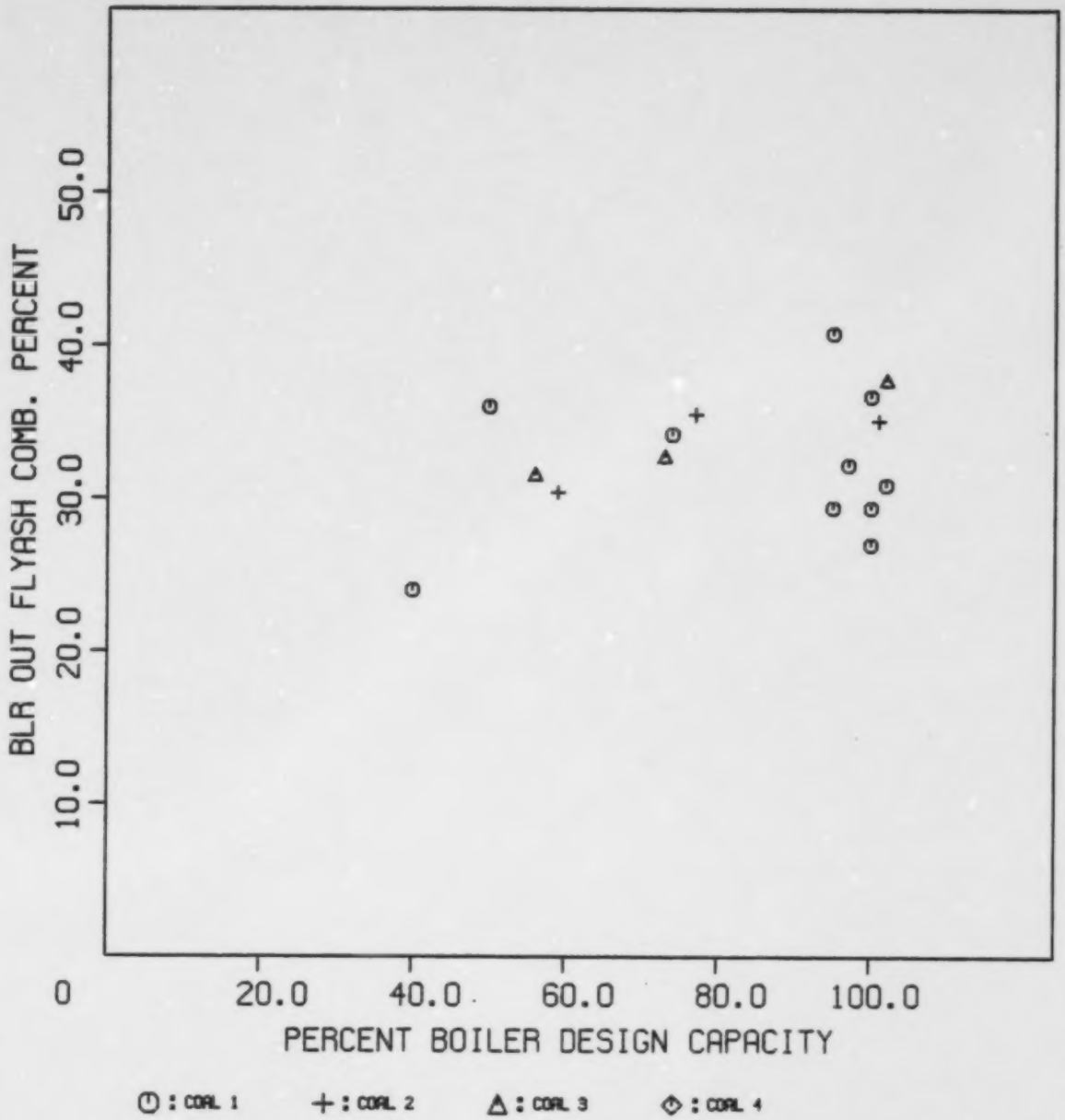


FIG. SITE K

BLR OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

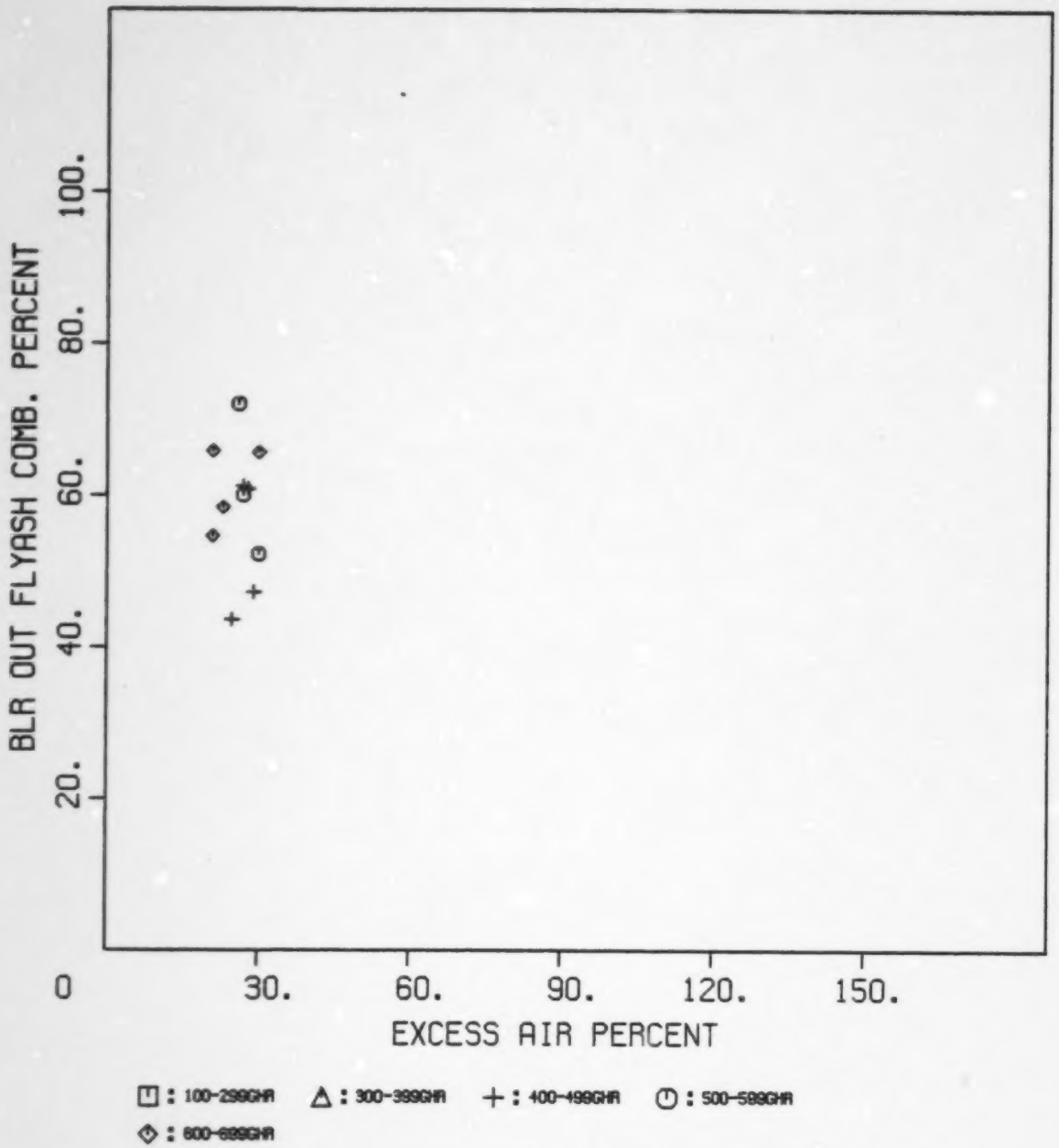


FIG. SITE A
BLR OUT FLYASH COMB. VS. EXCESS AIR

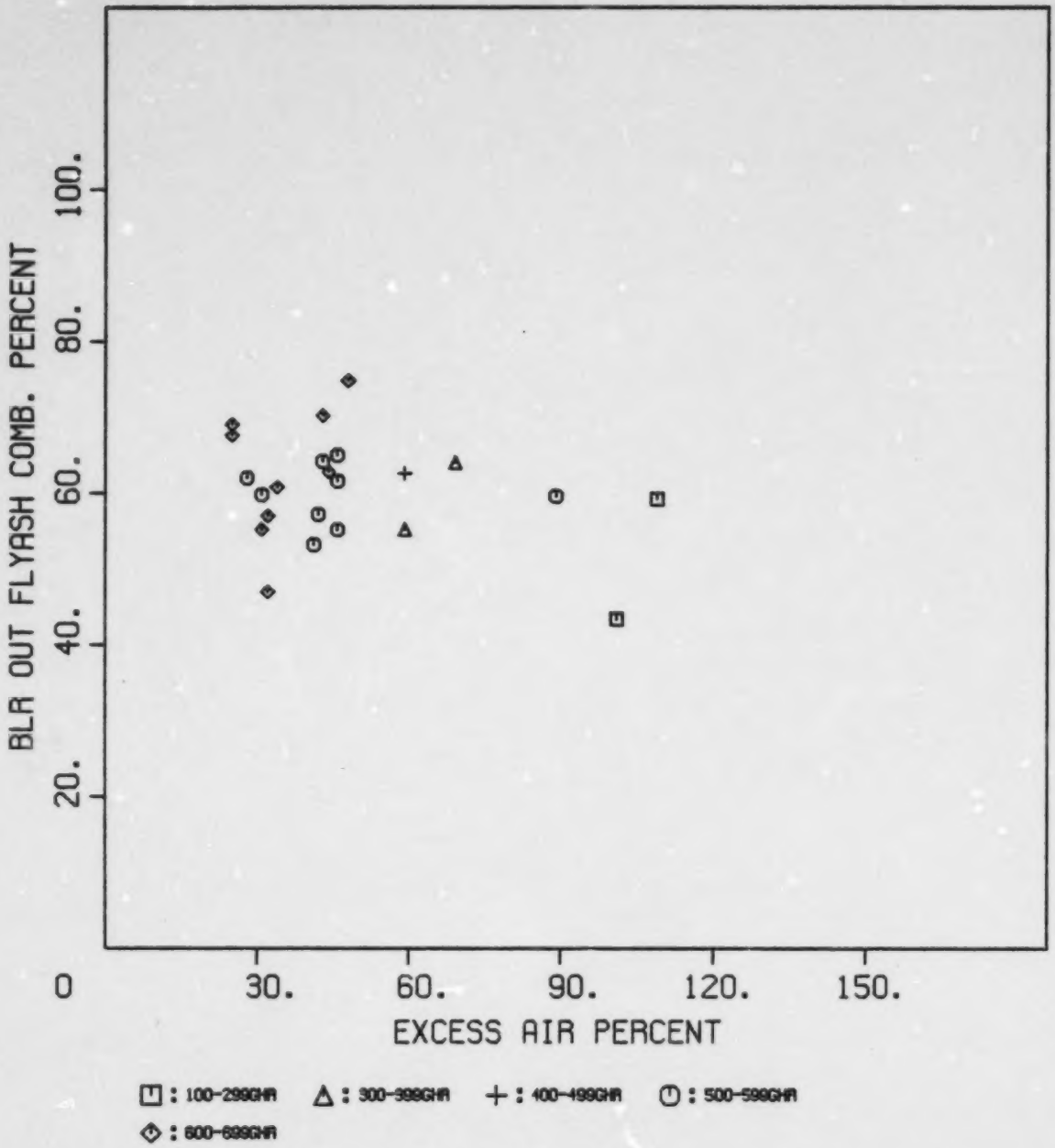


FIG. SITE B
BLR OUT FLYASH COMB. VS. EXCESS AIR

KVB4-15900-554

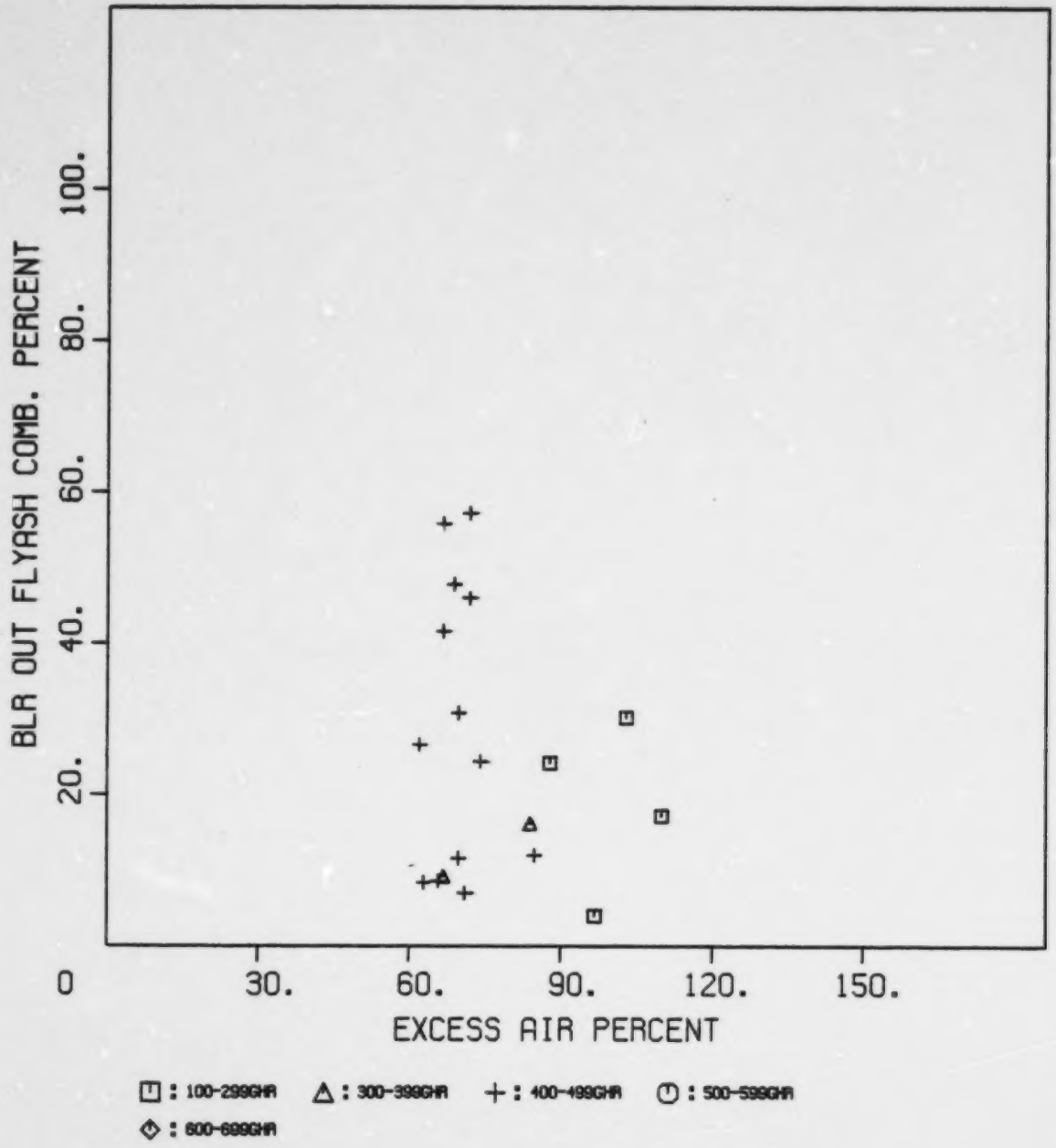


FIG. SITE C
BLR OUT FLYASH COMB. VS. EXCESS AIR

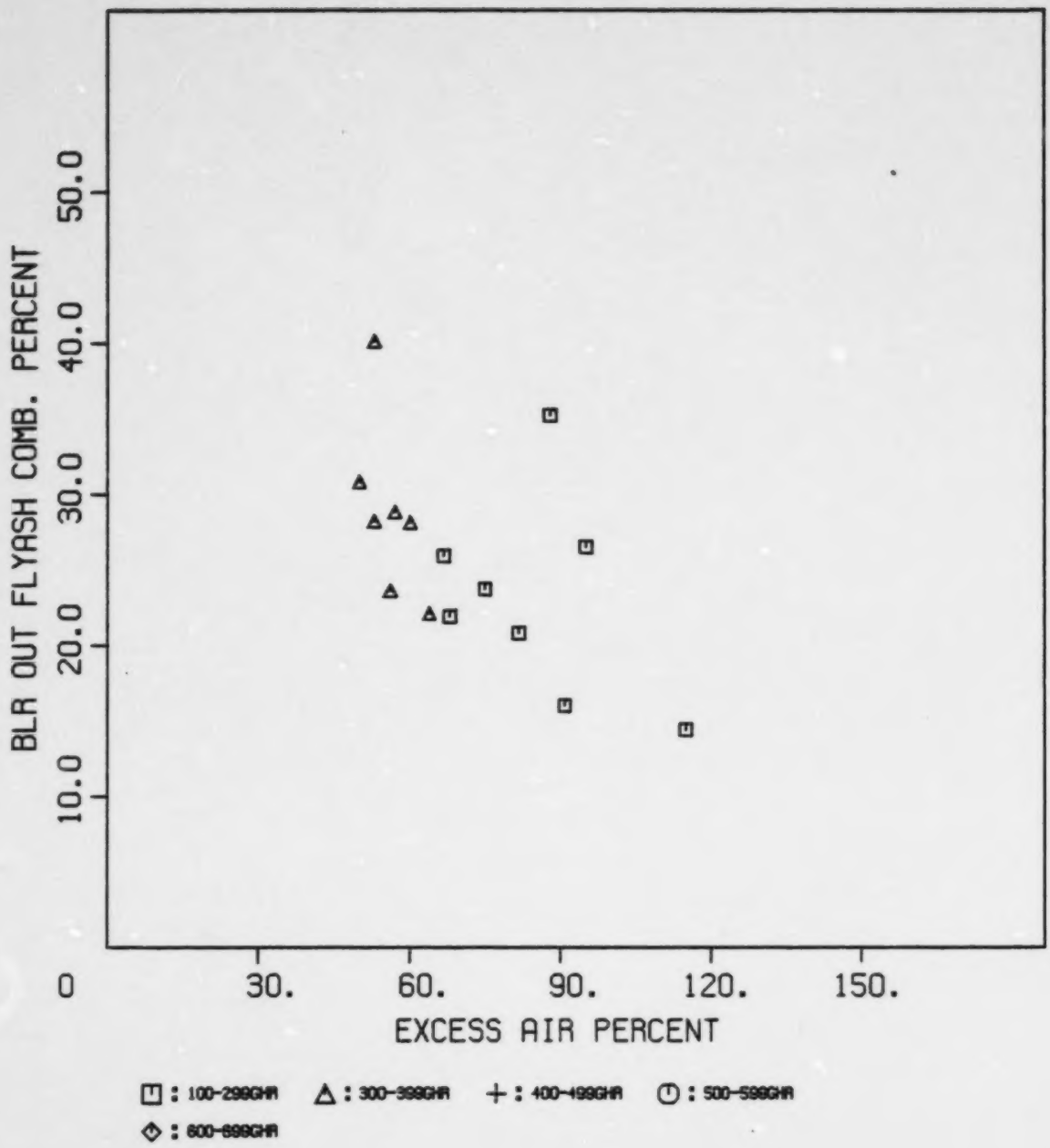


FIG. SITE D
BLR OUT FLYASH COMB. VS. EXCESS AIR

KVB4-15800-554

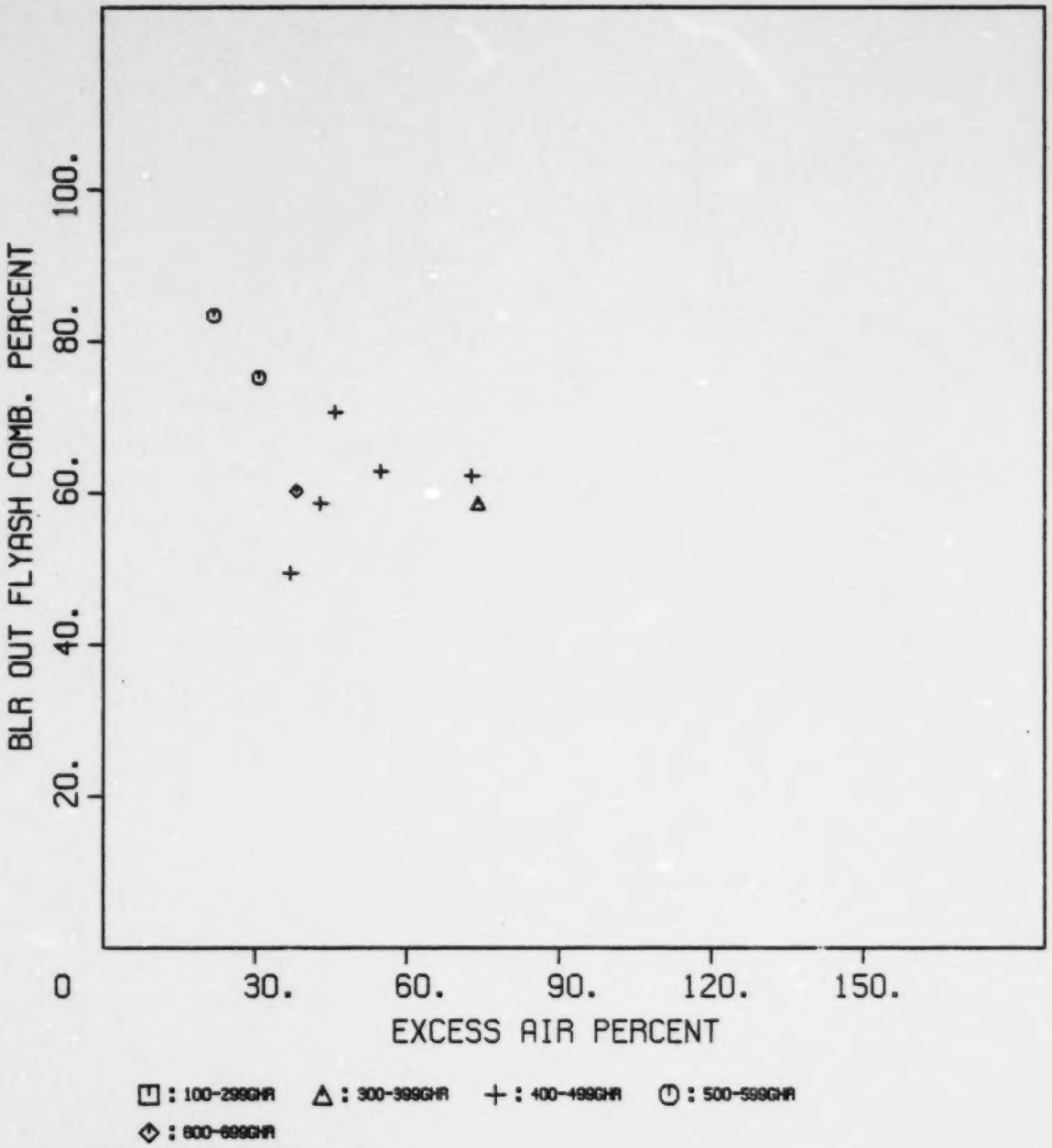


FIG. SITE E
BLR OUT FLYASH COMB. VS. EXCESS AIR

KVB4-15900-554

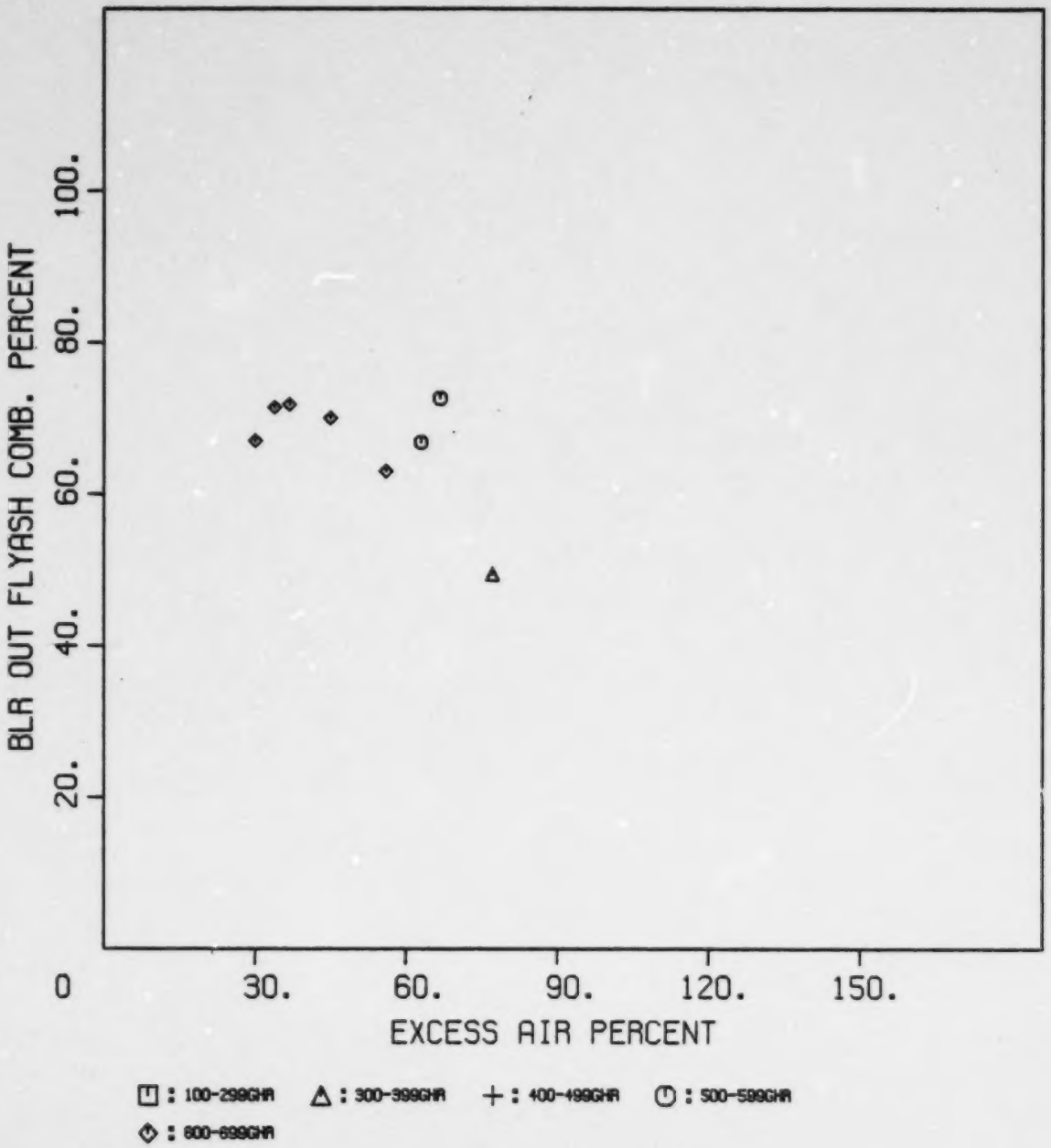


FIG. SITE F
BLR OUT FLYASH COMB. VS. EXCESS AIR

KYB4-15900-554

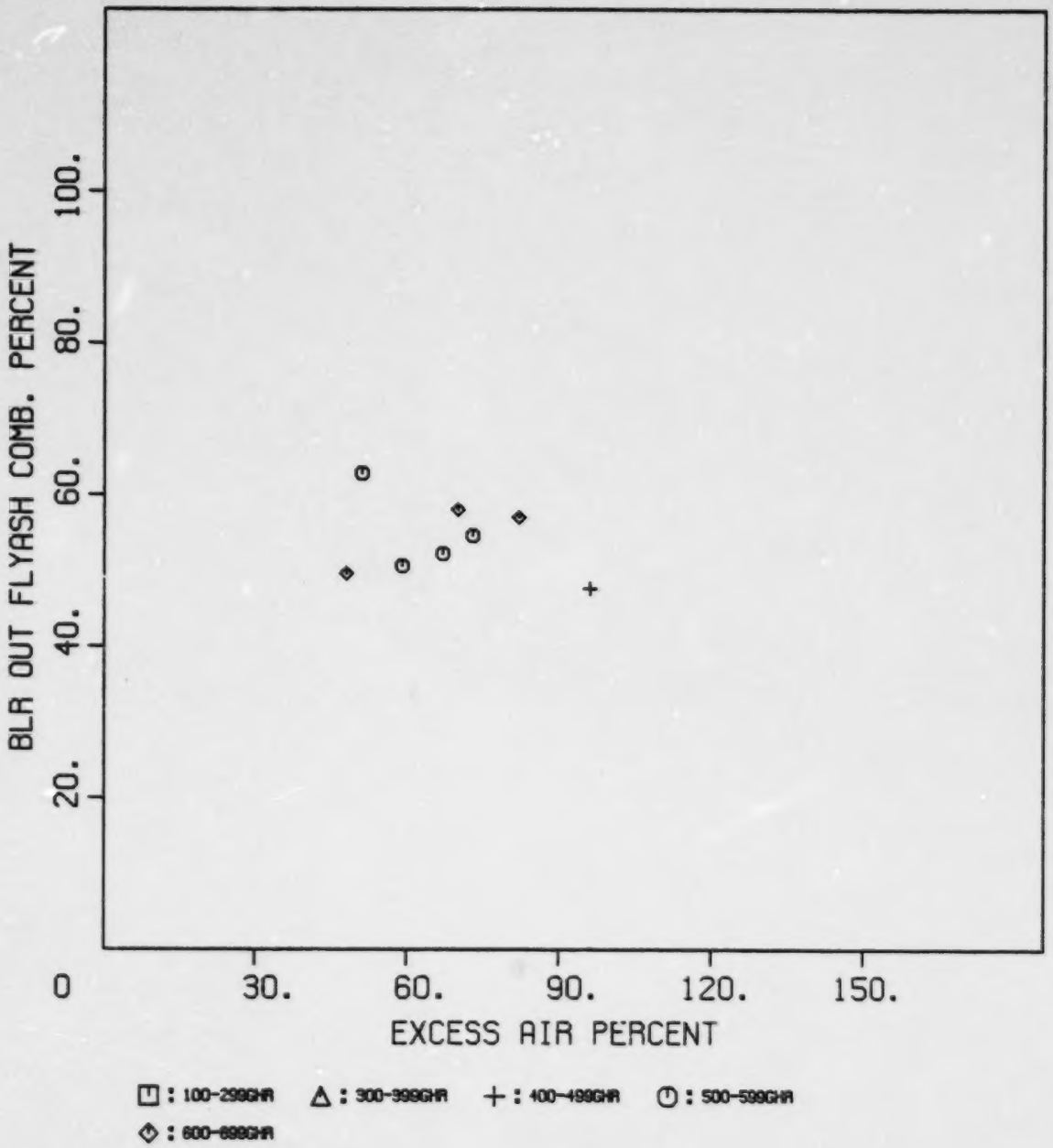


FIG. SITE G
BLR OUT FLYASH COMB. VS. EXCESS AIR

KVB4-15900-554

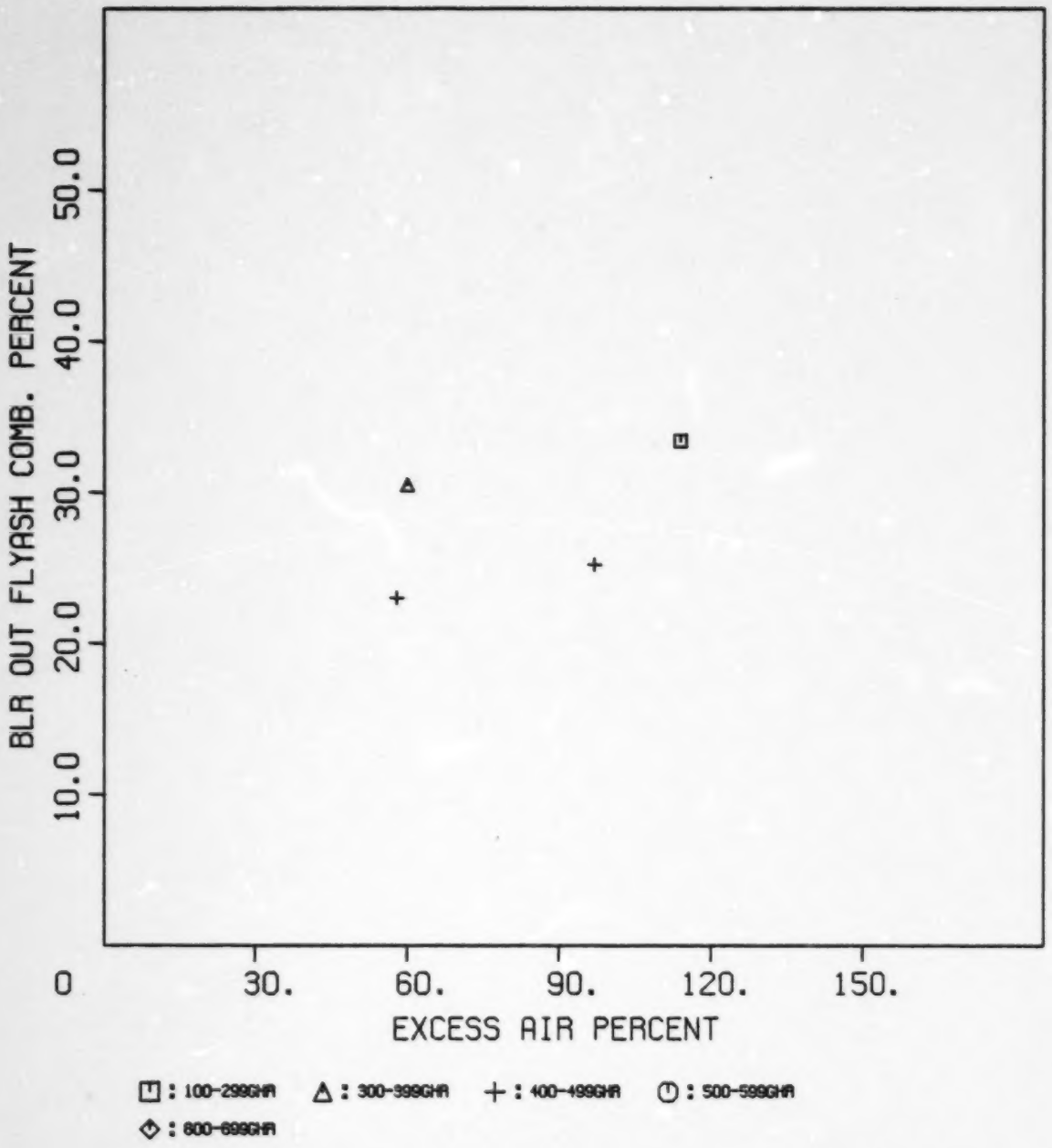


FIG. SITE H

BLR OUT FLYASH COMB. VS. EXCESS AIR

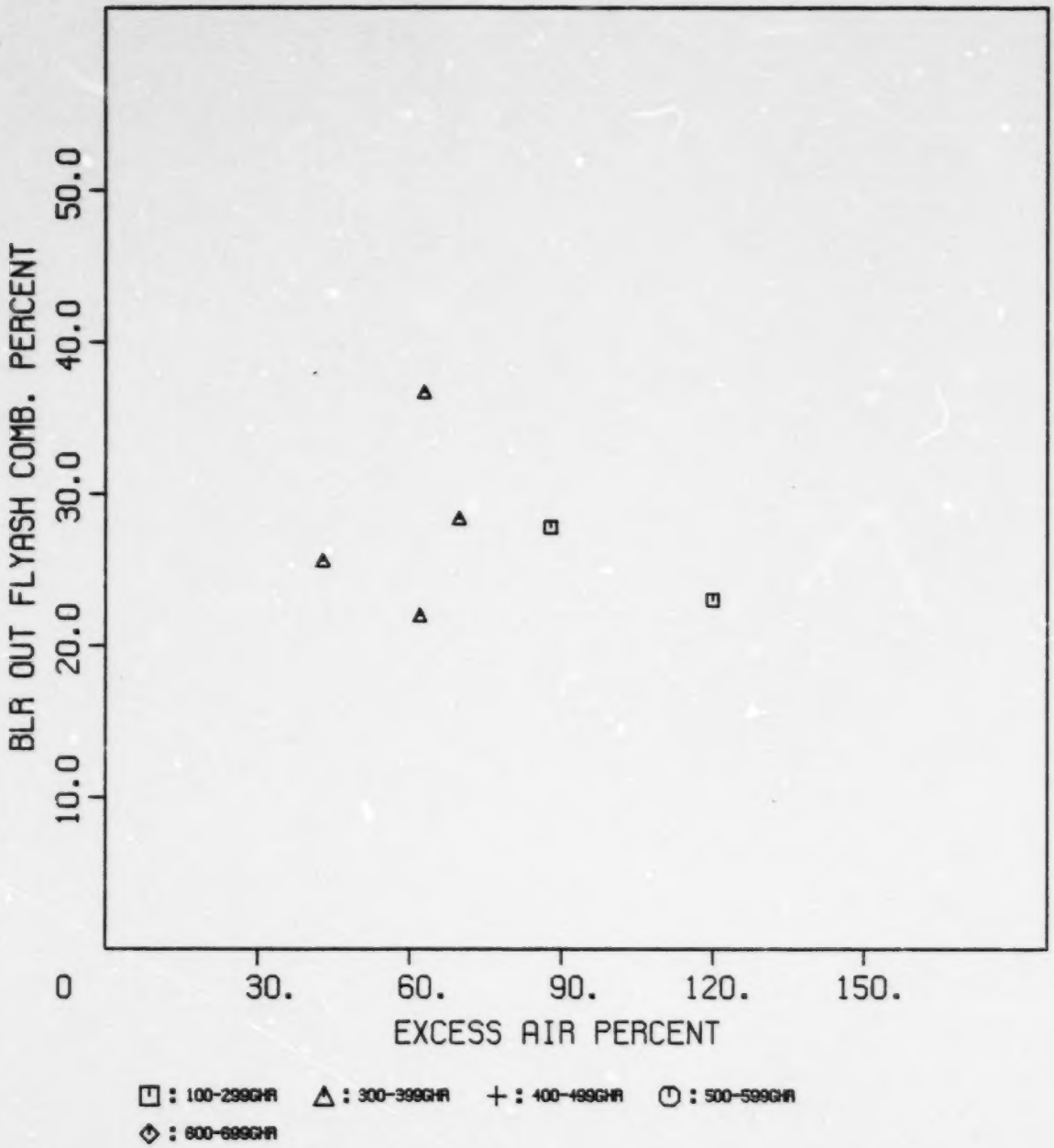


FIG. SITE I
BLR OUT FLYASH COMB. VS. EXCESS AIR

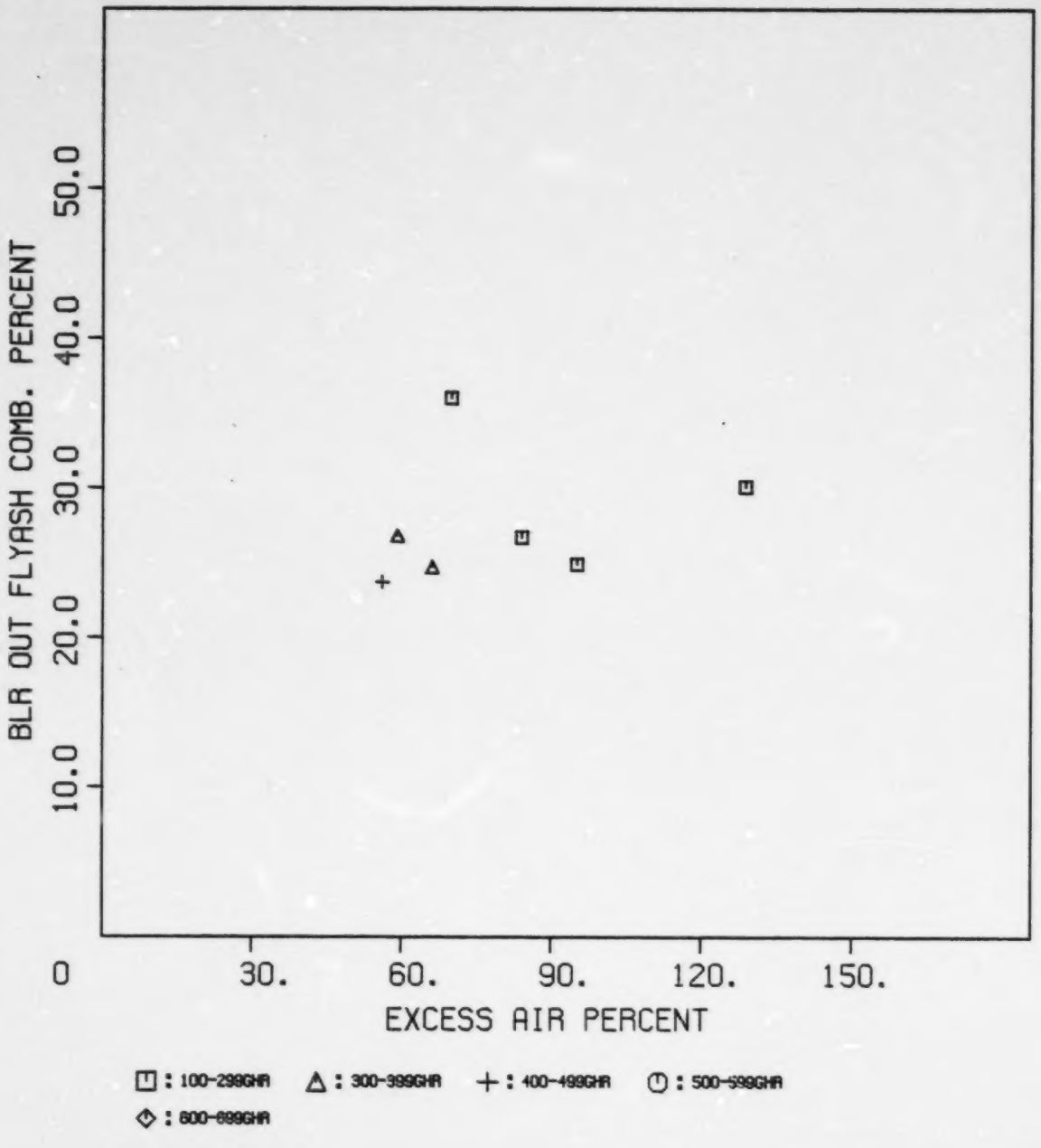


FIG. SITE J
BLR OUT FLYASH COMB. VS. EXCESS AIR

KVB4-15900-554

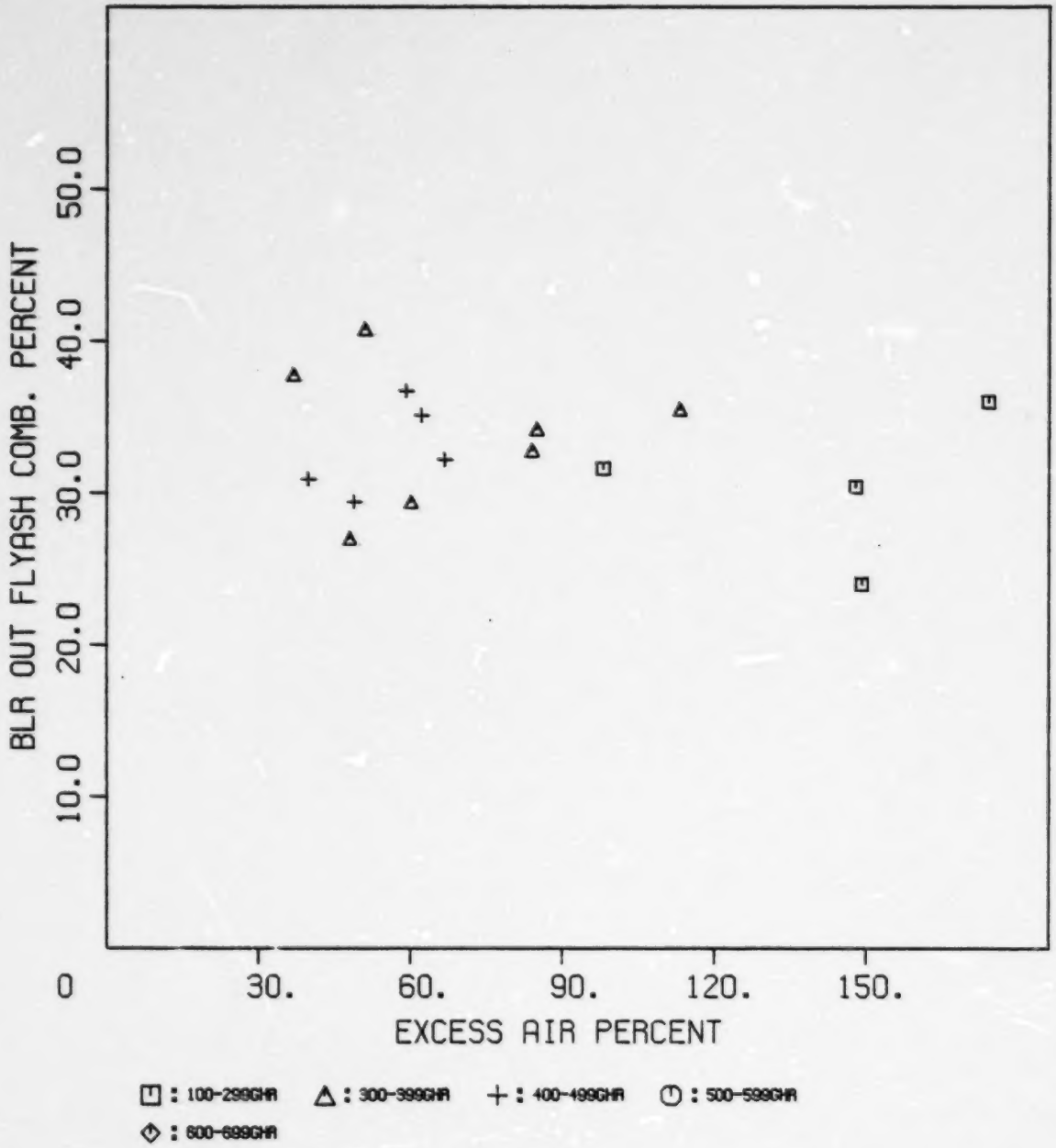


FIG. SITE K
BLR OUT FLYASH COMB. VS. EXCESS AIR

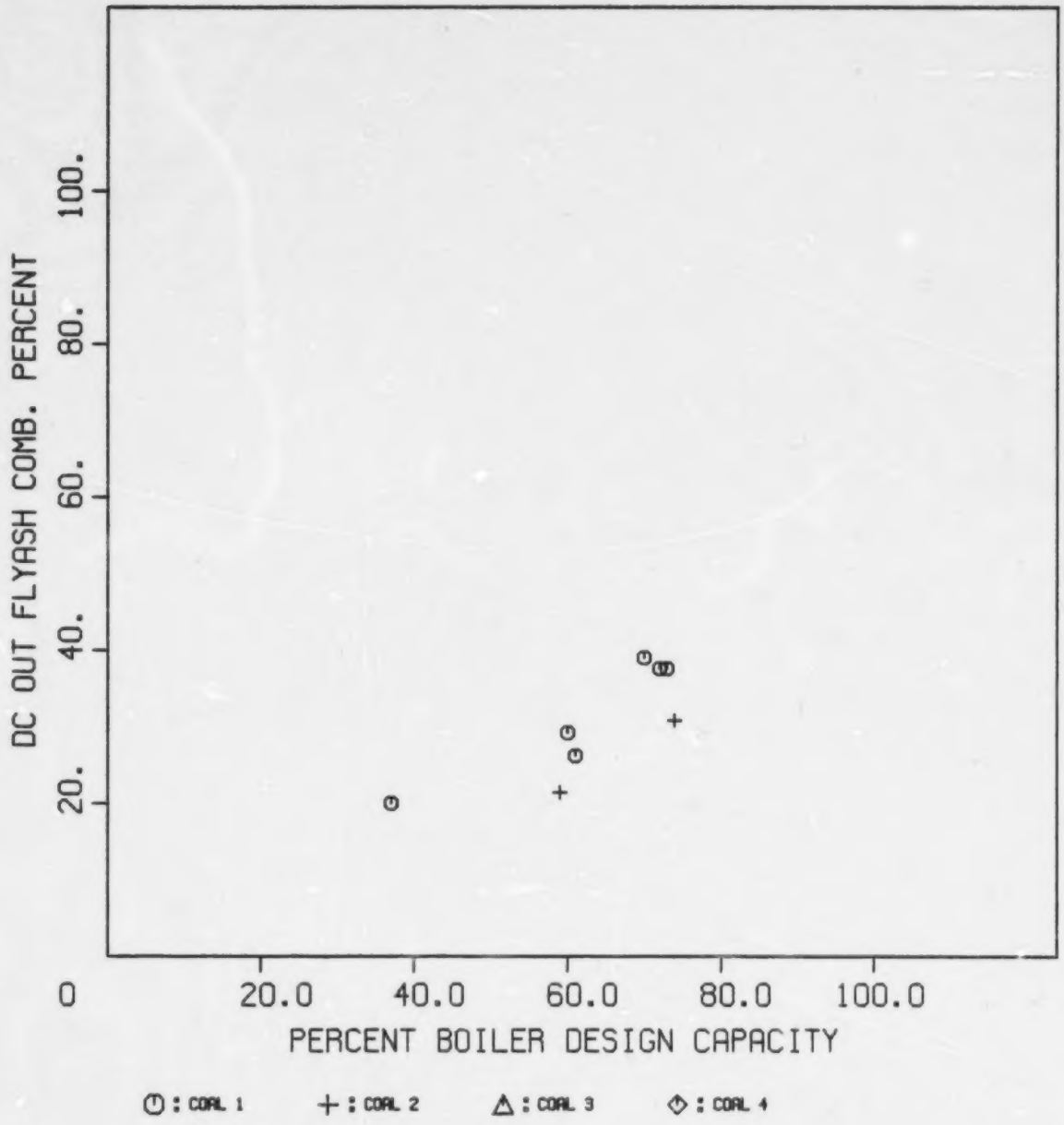


FIG. SITE A
DC OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

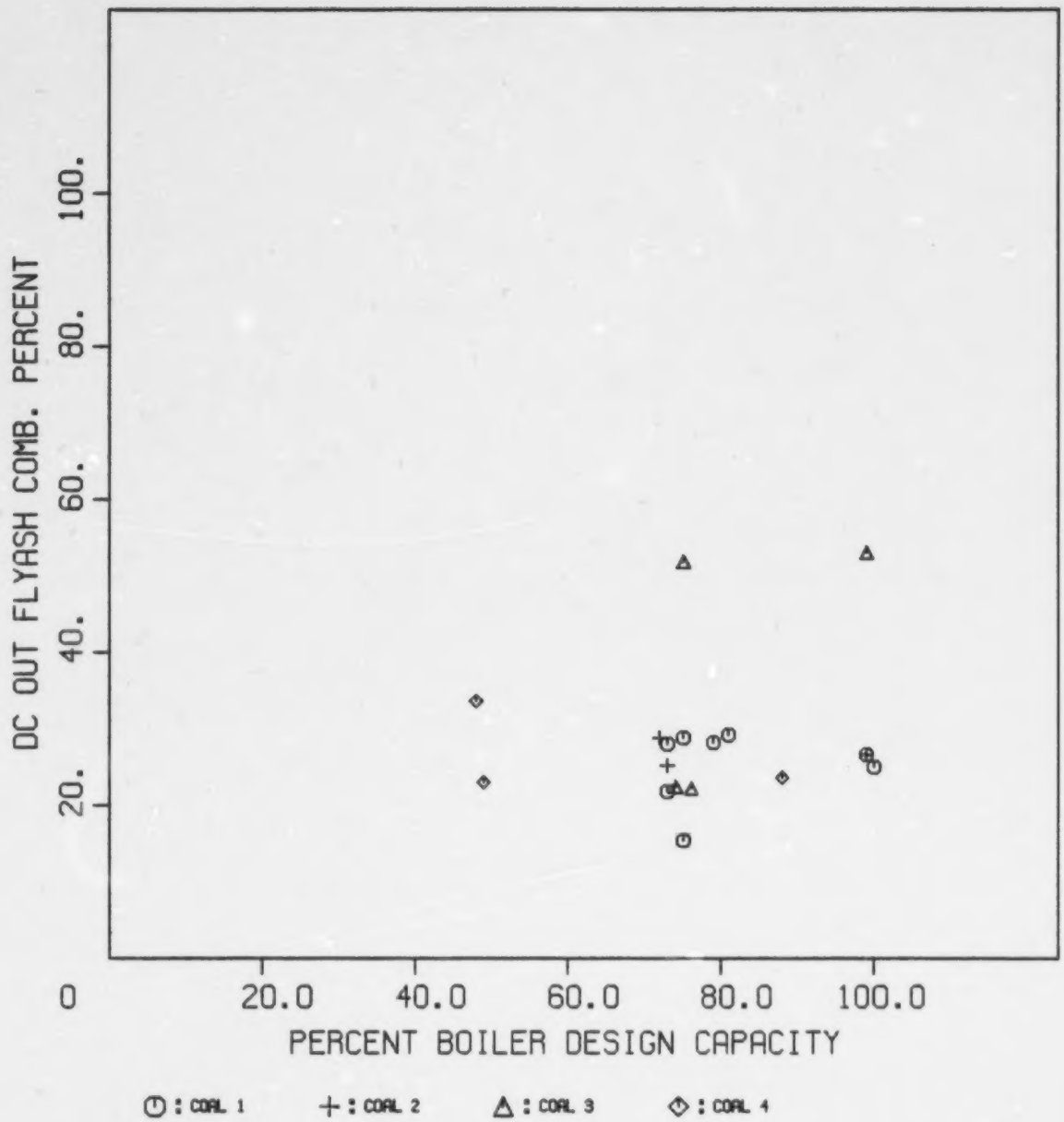


FIG. SITE B
DC OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

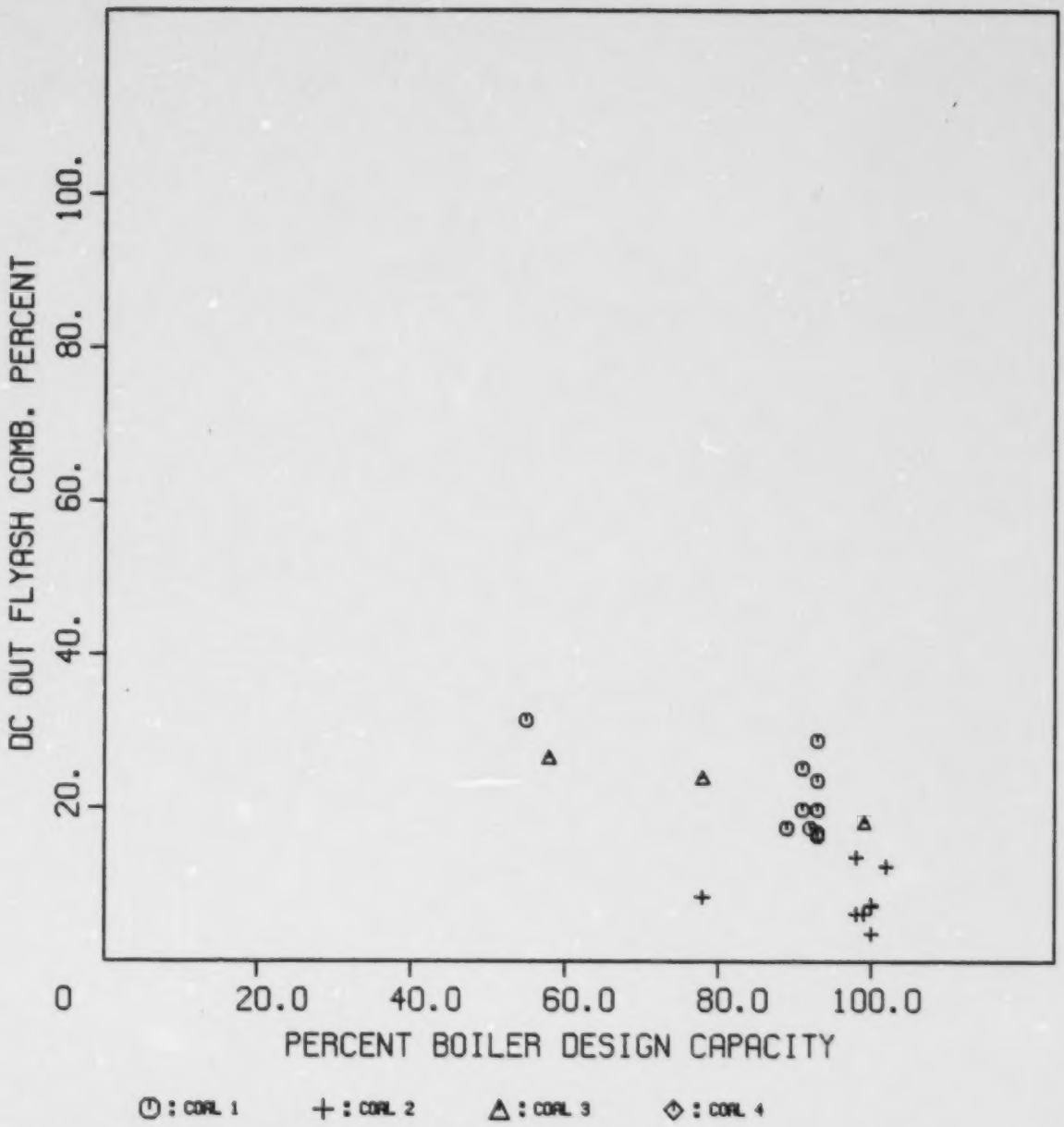


FIG. SITE C
DC OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

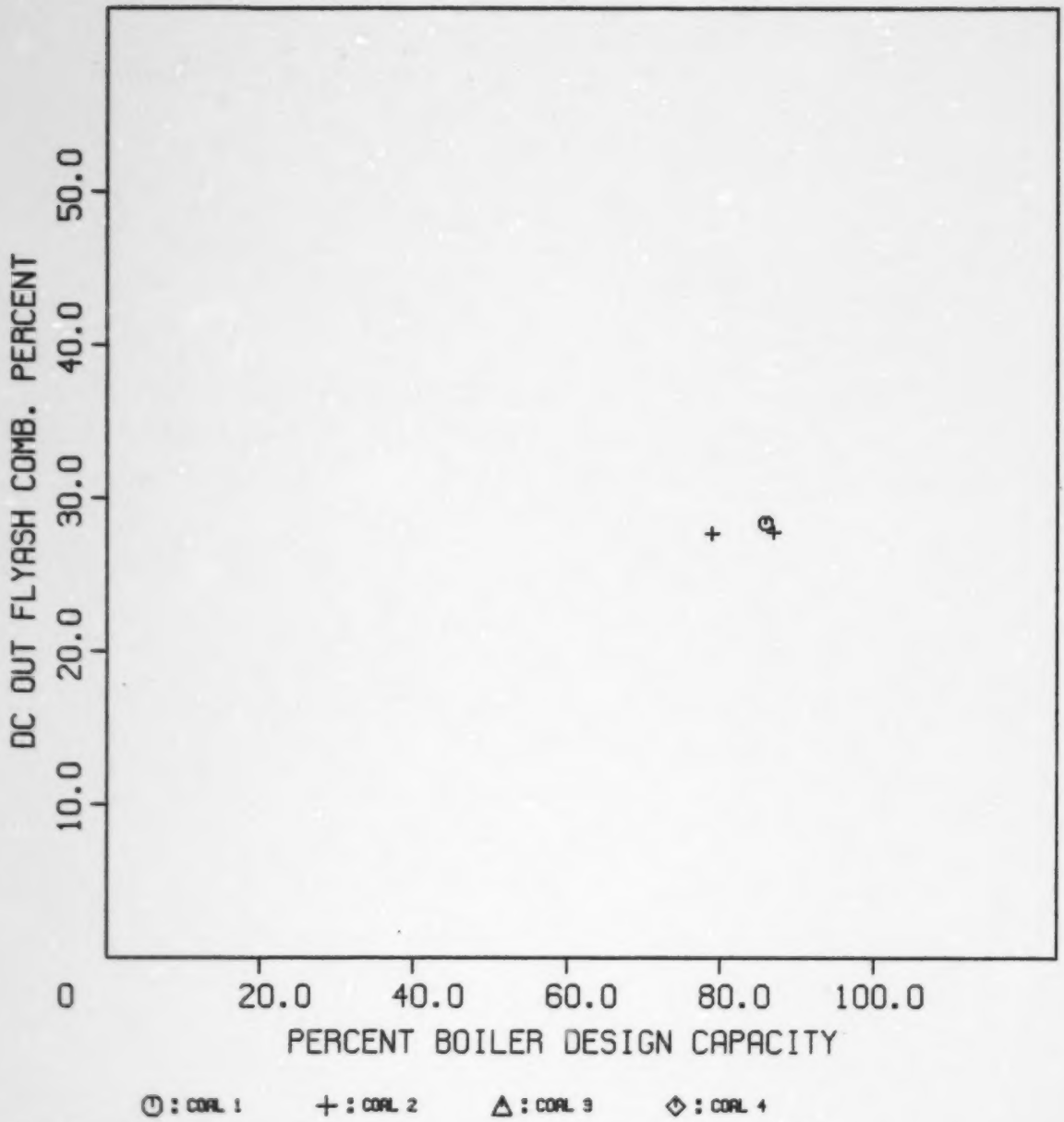


FIG. SITE D
DC OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15800-554

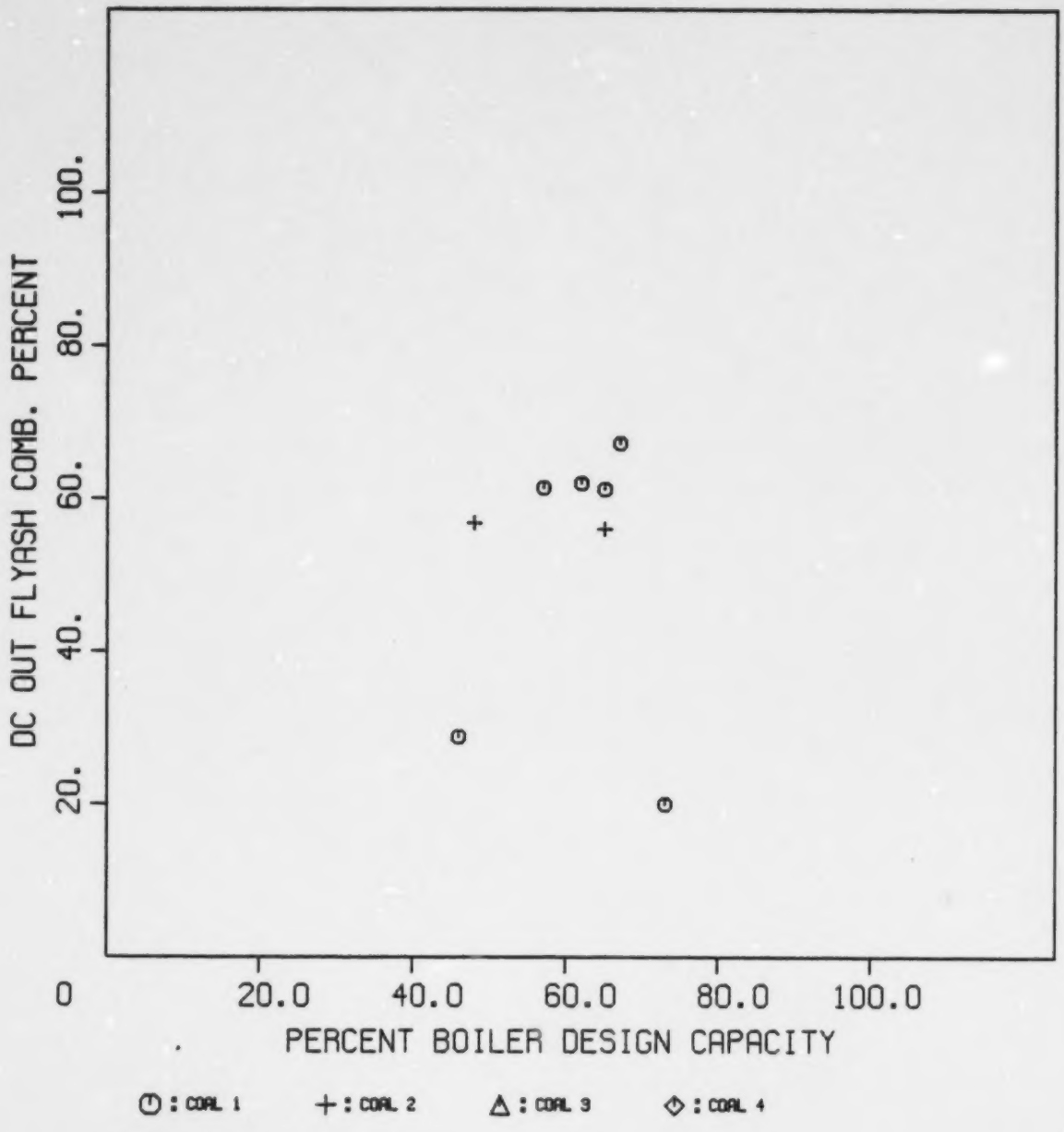


FIG. SITE E
DC OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

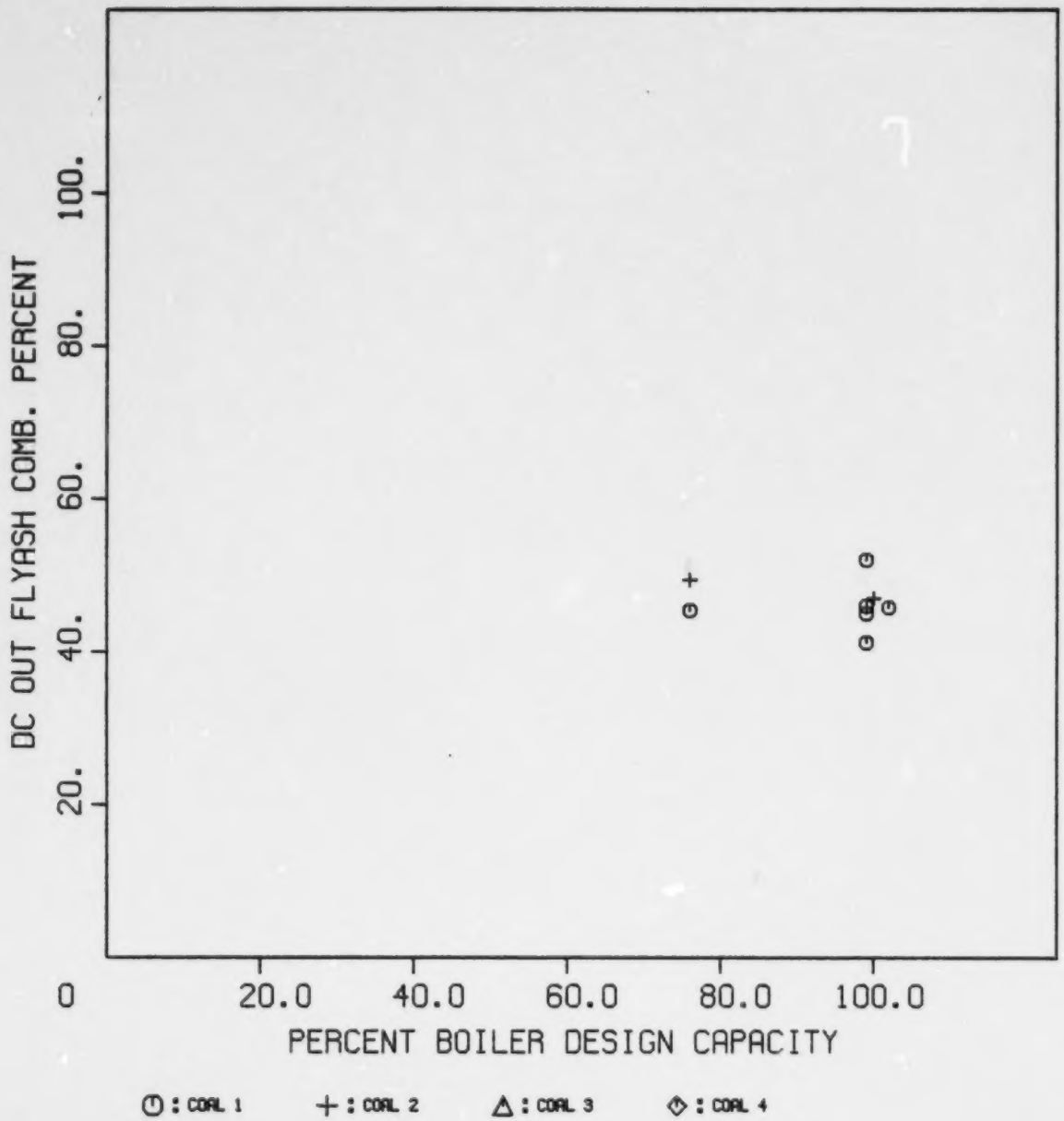


FIG. SITE F
DC OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

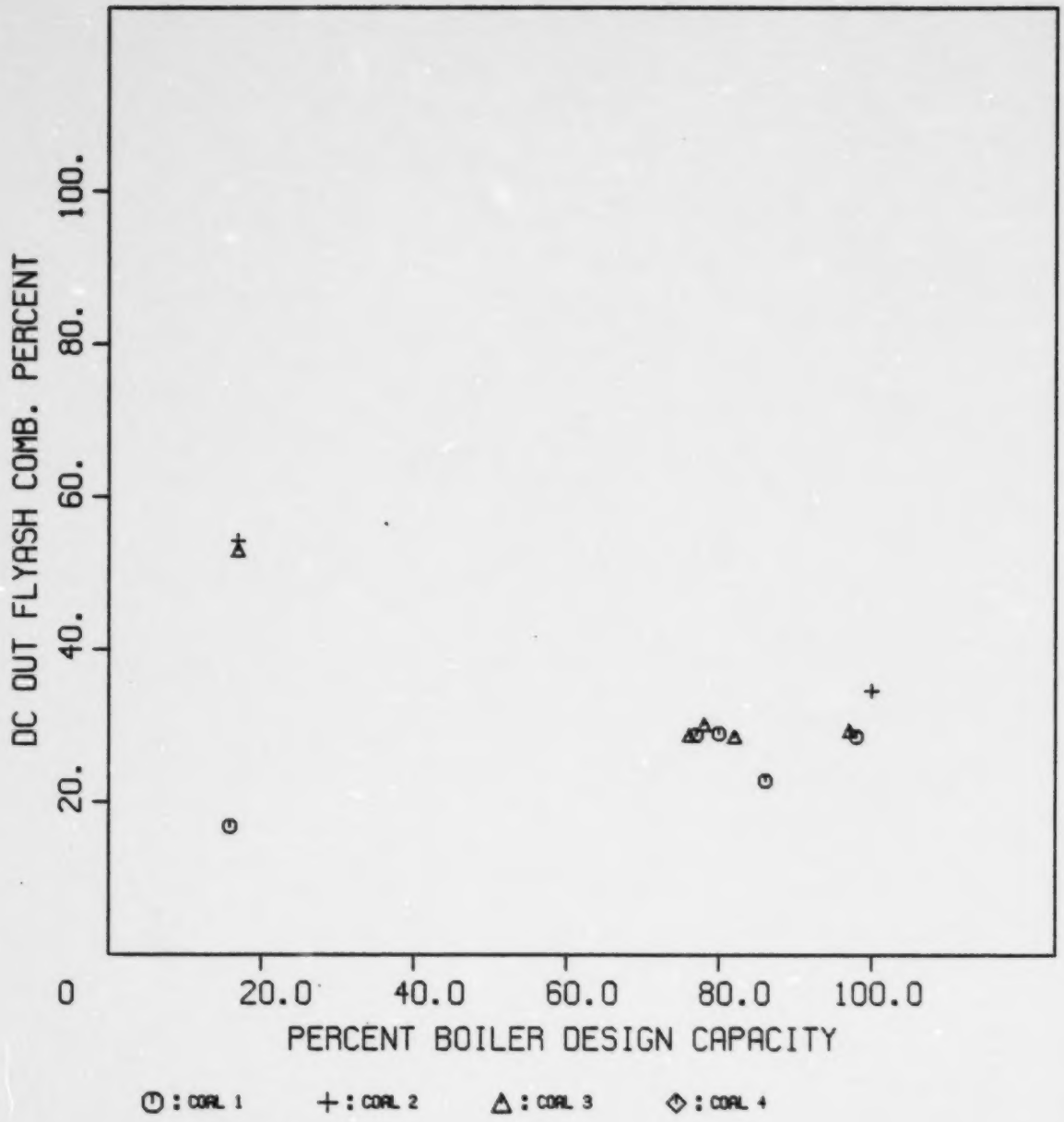


FIG. SITE G
DC OUT FLYASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15800-554

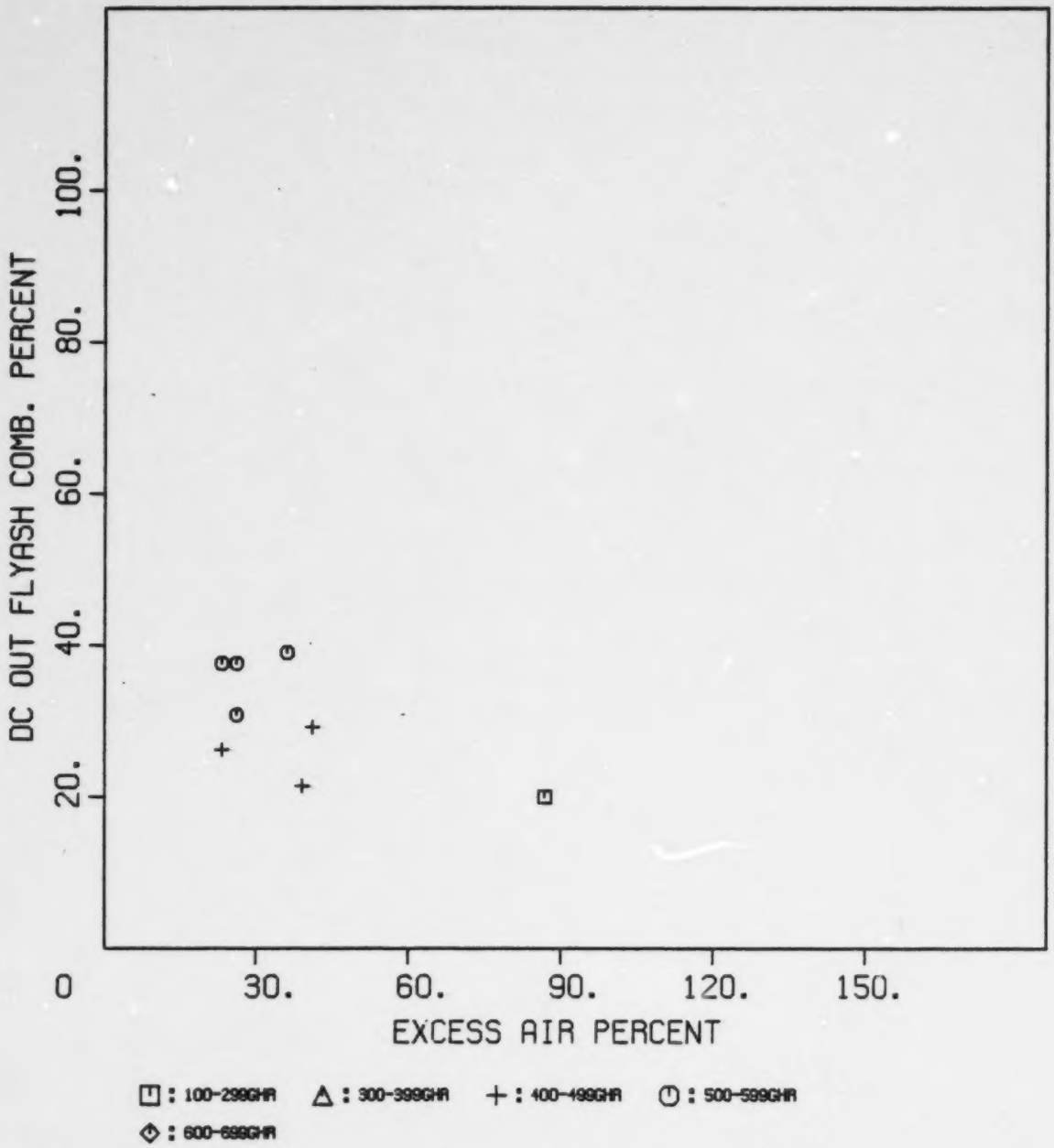


FIG. SITE A
DC OUT FLYASH COMB. VS. EXCESS AIR

KYB4-15900-554

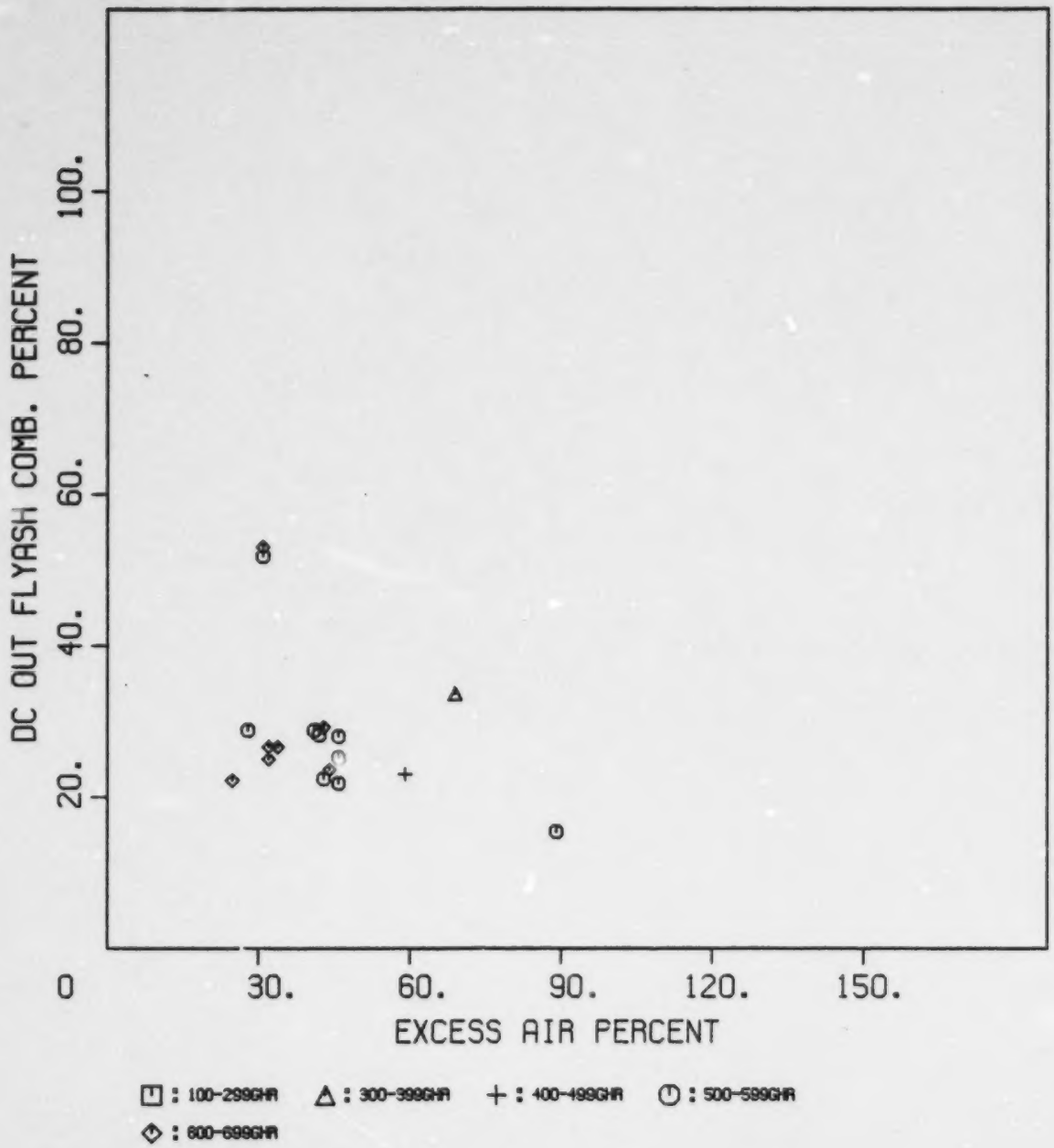


FIG. SITE B
DC OUT FLYASH COMB. VS. EXCESS AIR

KVB4-15900-554

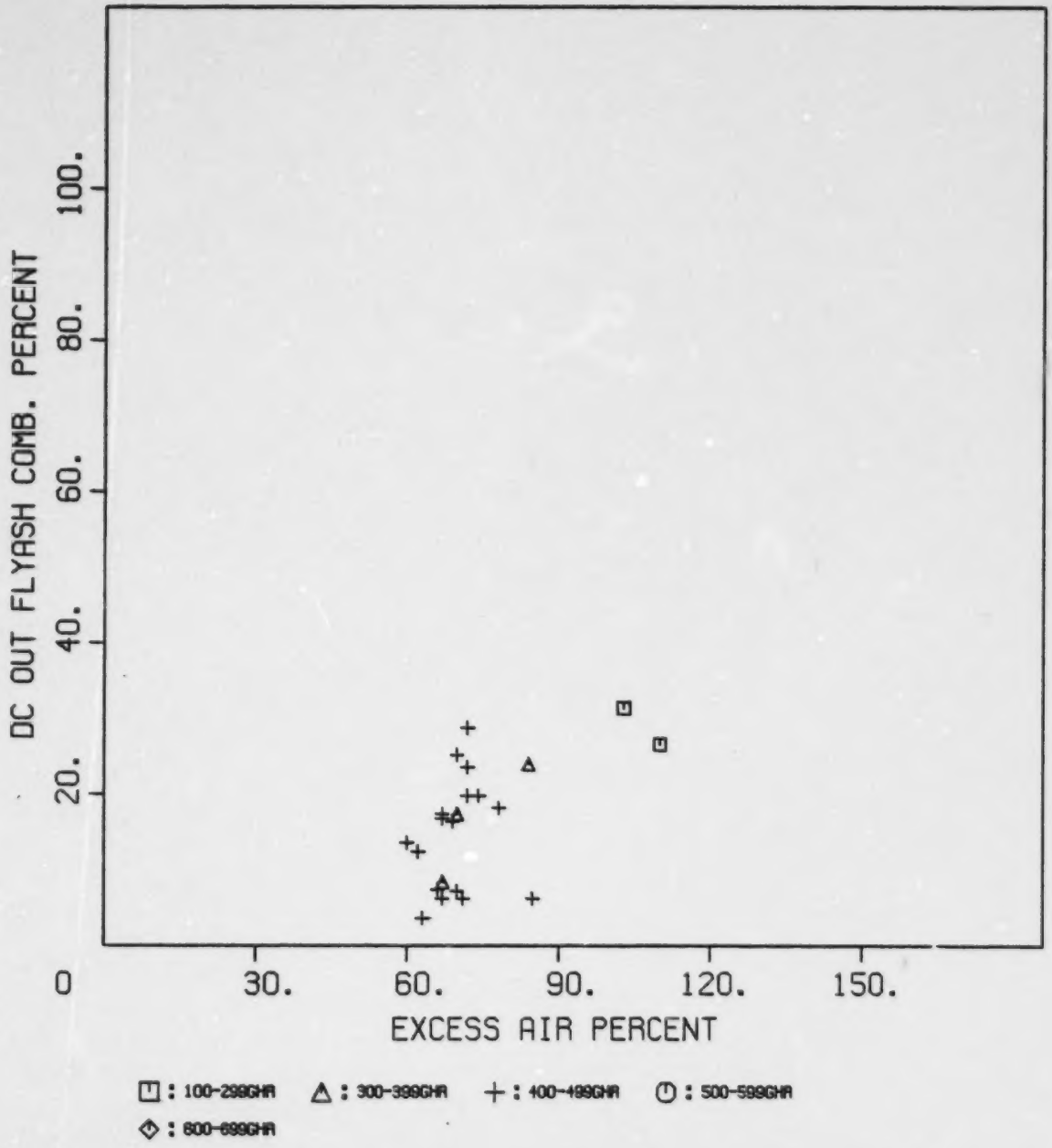


FIG. SITE C
DC OUT FLYASH COMB. VS. EXCESS AIR

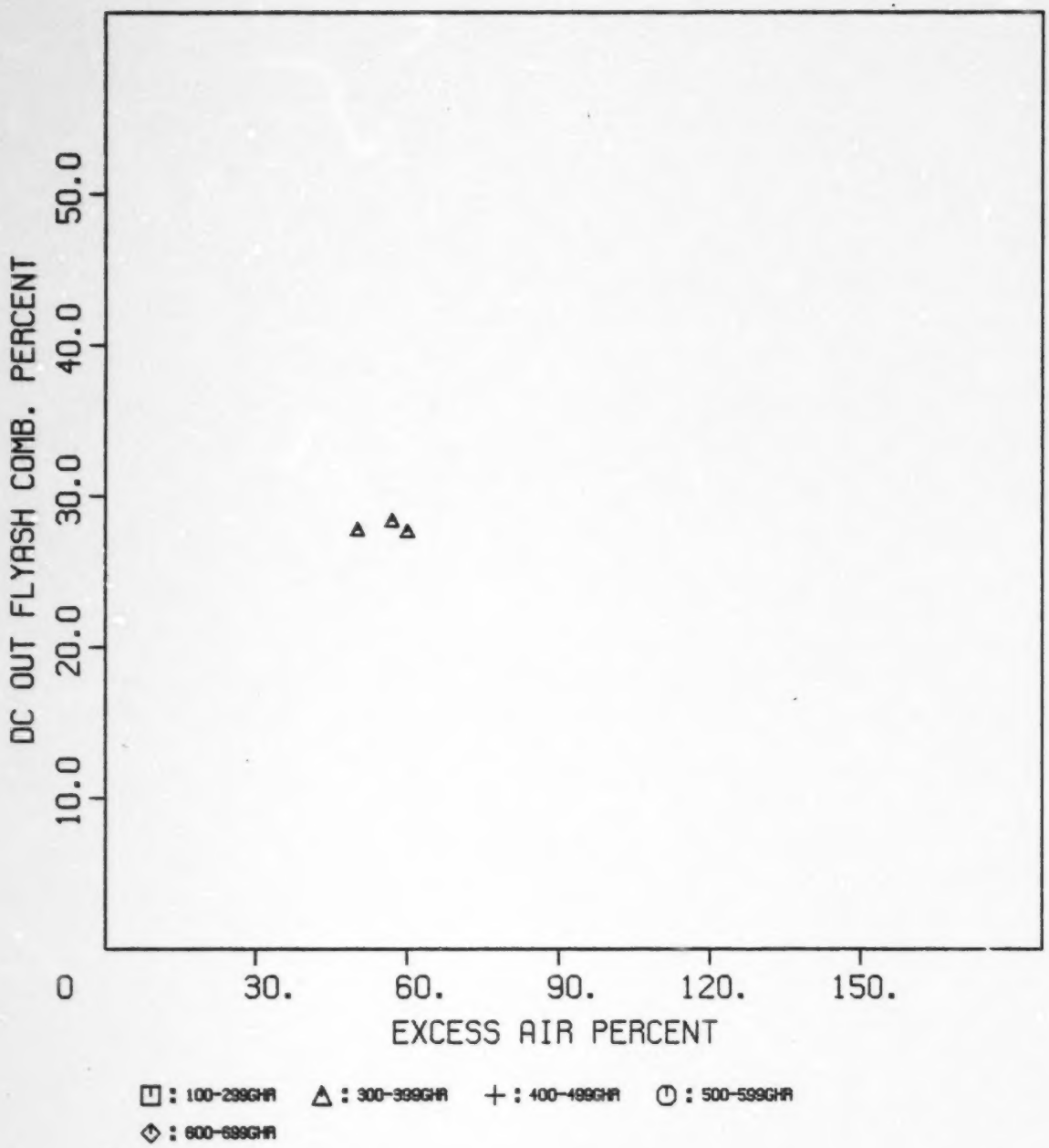


FIG. SITE D
DC OUT FLYASH COMB. VS. EXCESS AIR

KVB4-15900-554

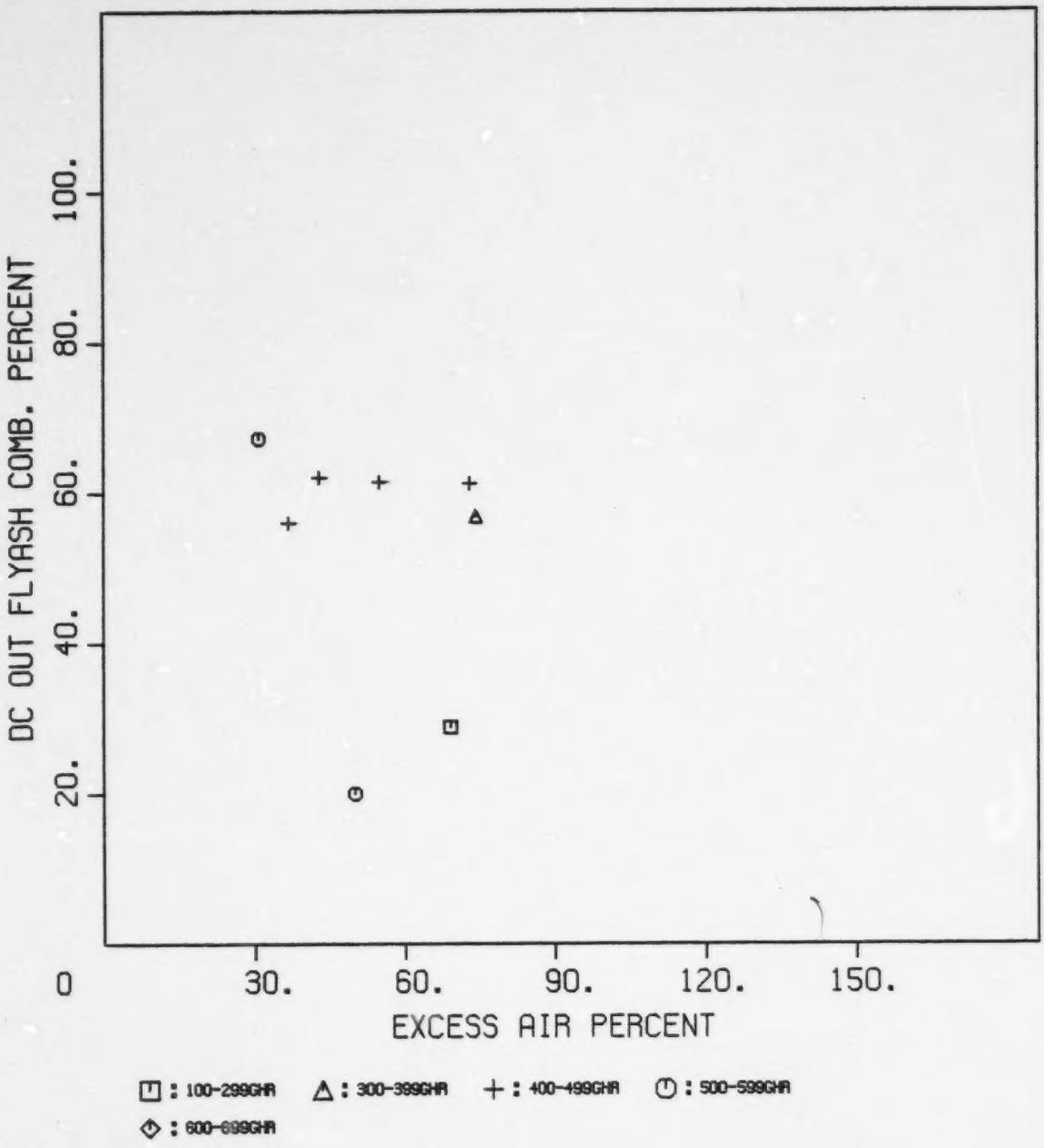


FIG. SITE E
DC OUT FLYASH COMB. VS. EXCESS AIR

KVB4-15900-554

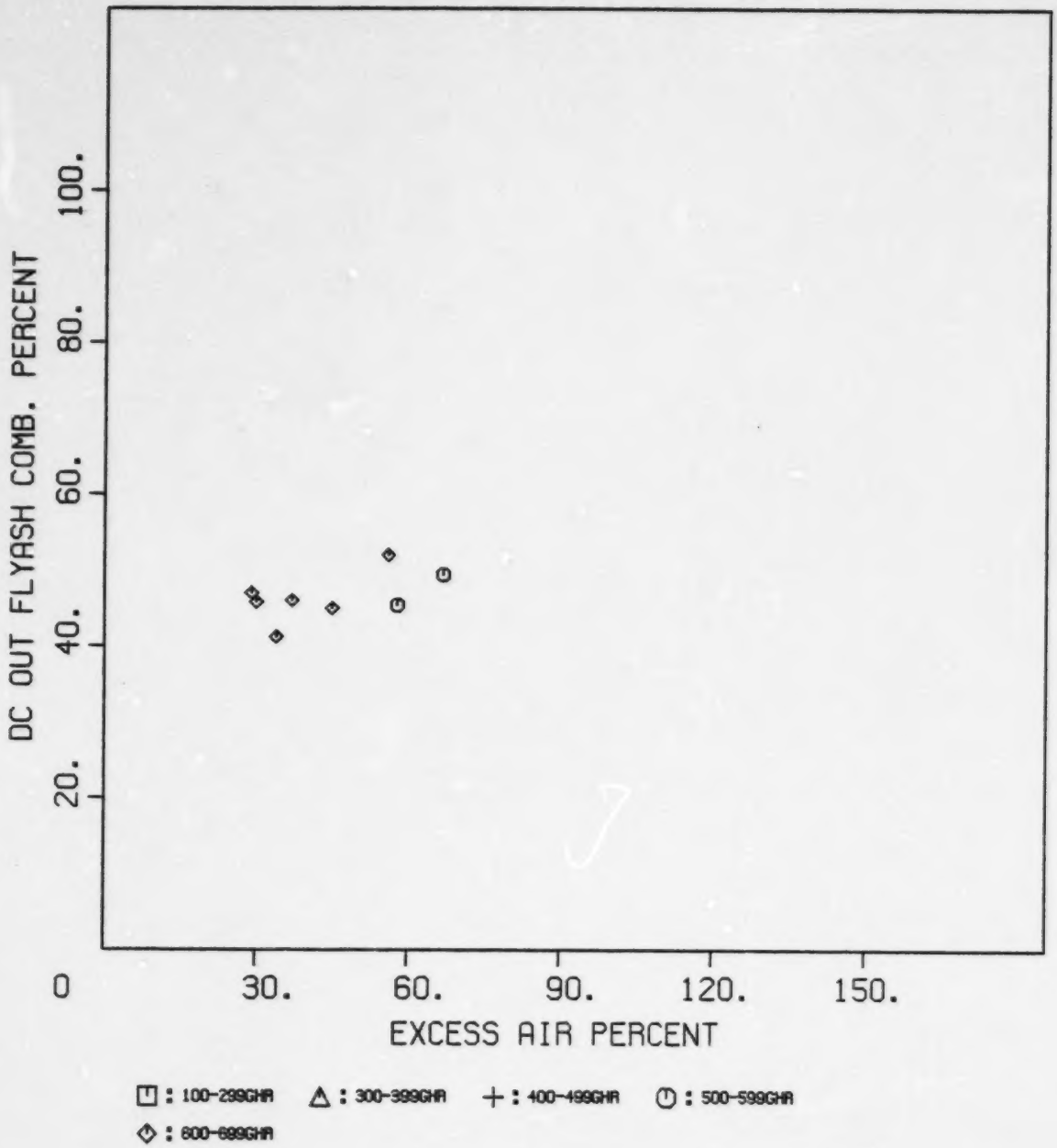


FIG. SITE F
DC OUT FLYASH COMB. VS. EXCESS AIR

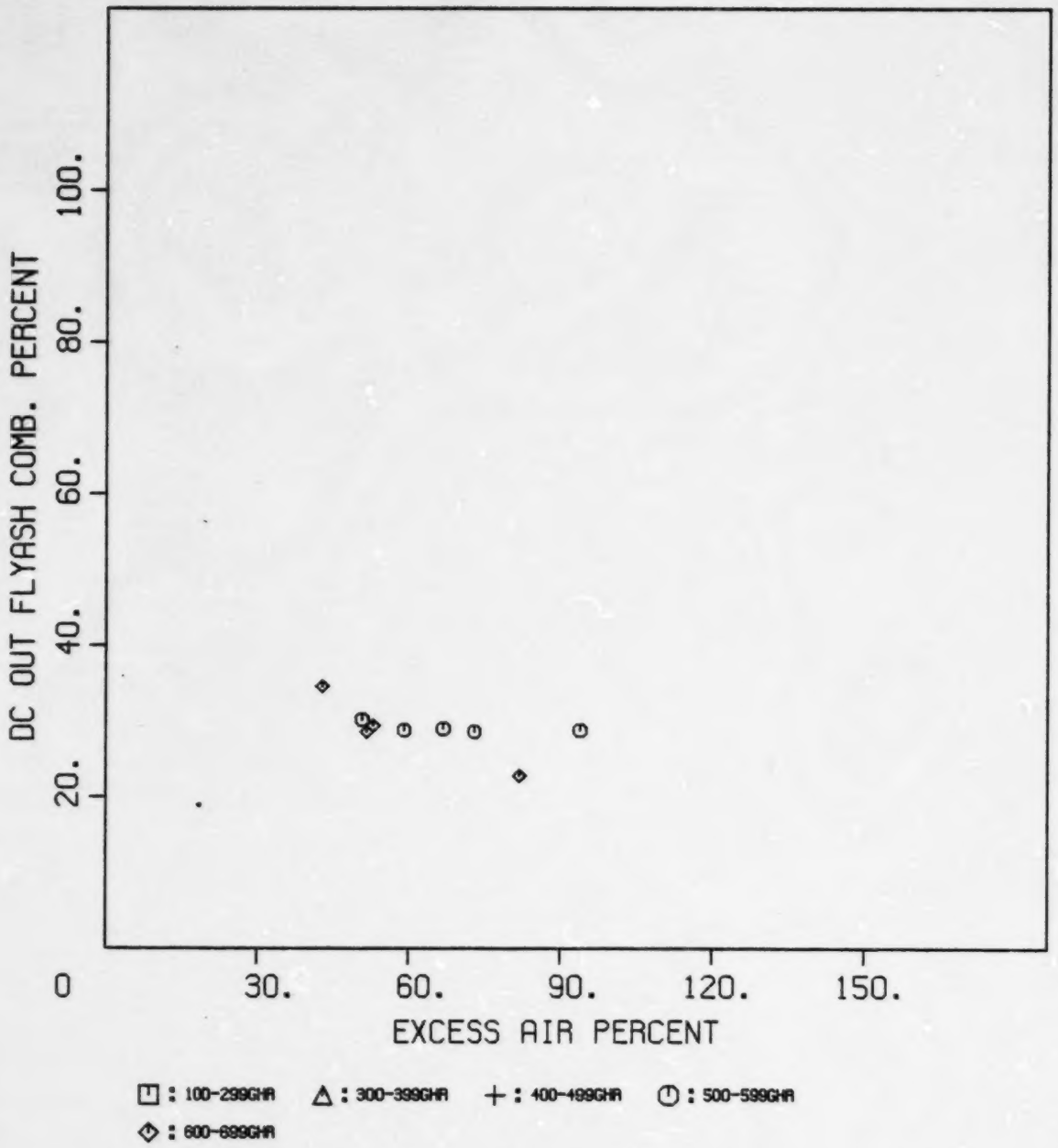


FIG. SITE G
DC OUT FLYASH COMB. VS. EXCESS AIR

KVB4-15900-554

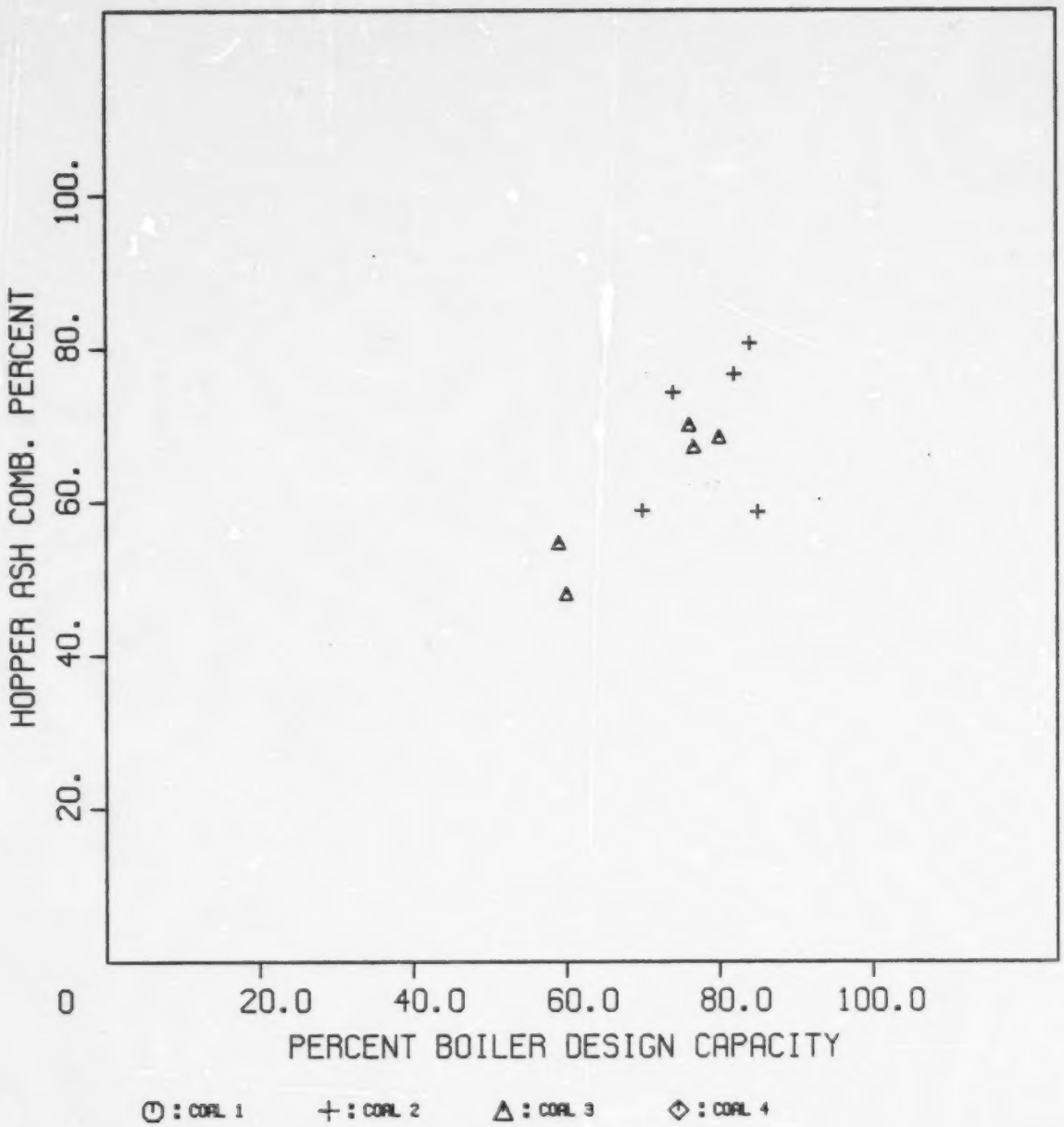


FIG. SITE A
HOPPER ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

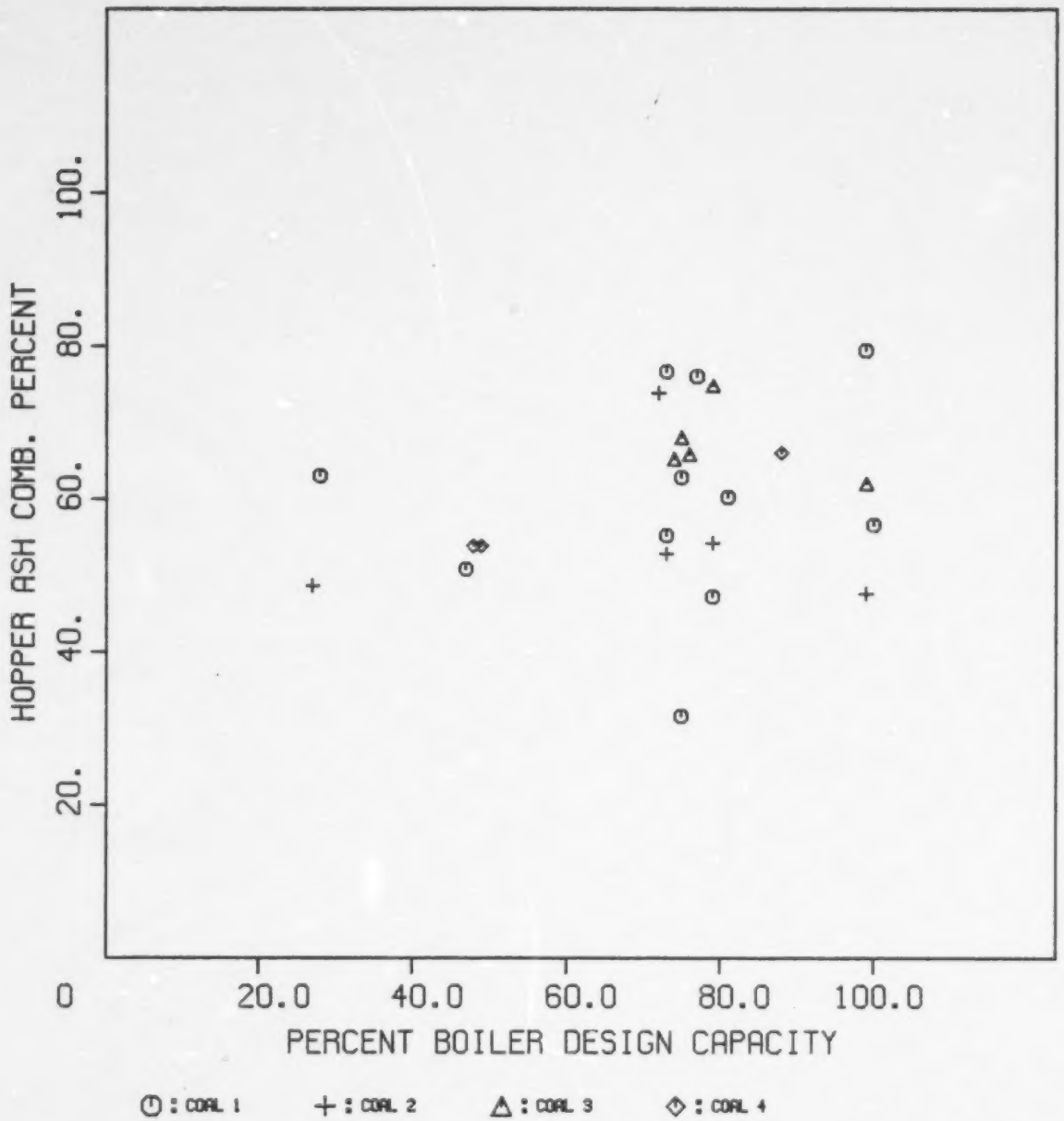


FIG. SITE B
HOPPER ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

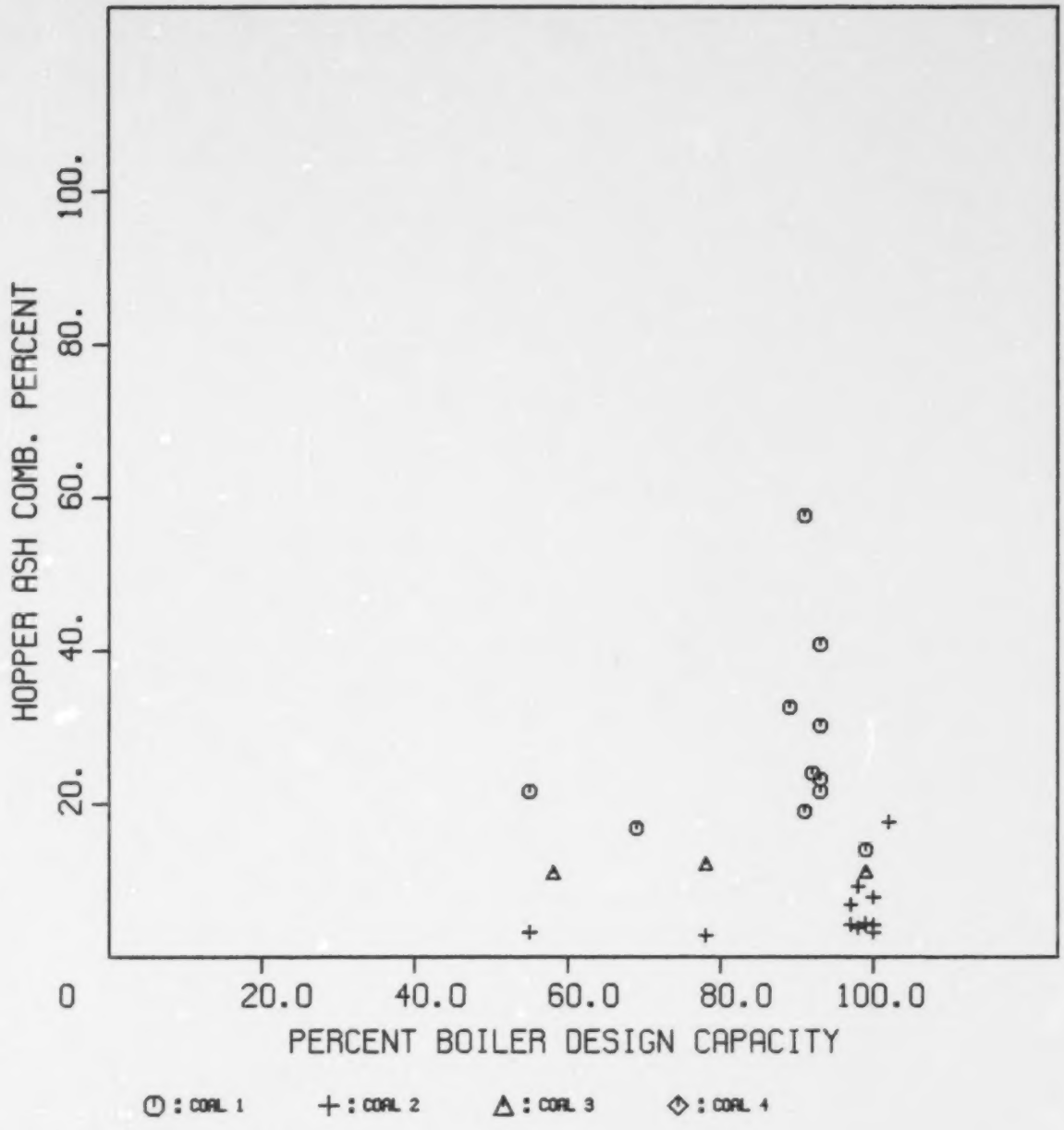


FIG. SITE C
HOPPER ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

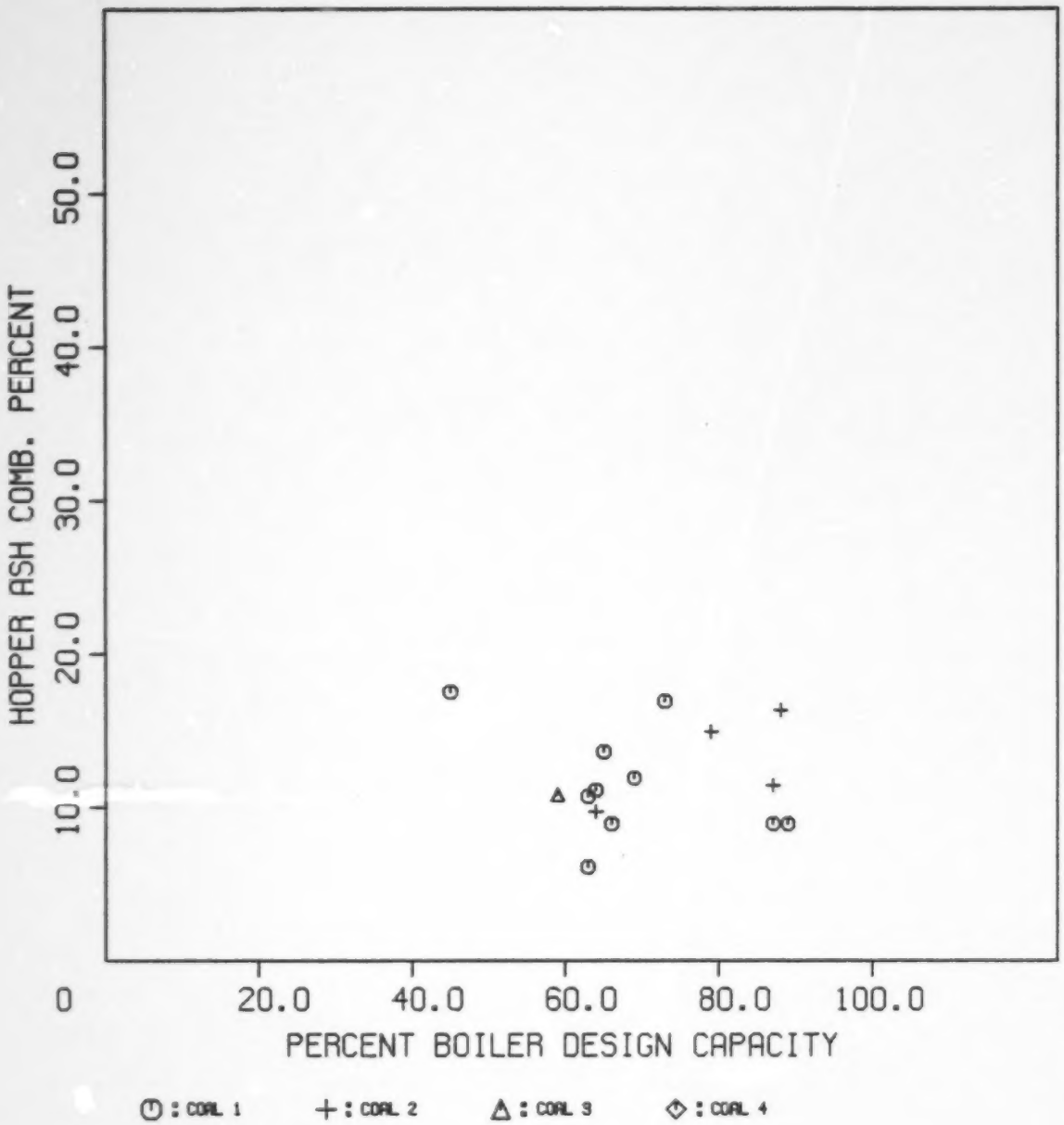


FIG. SITE D
HOPPER ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15800-554

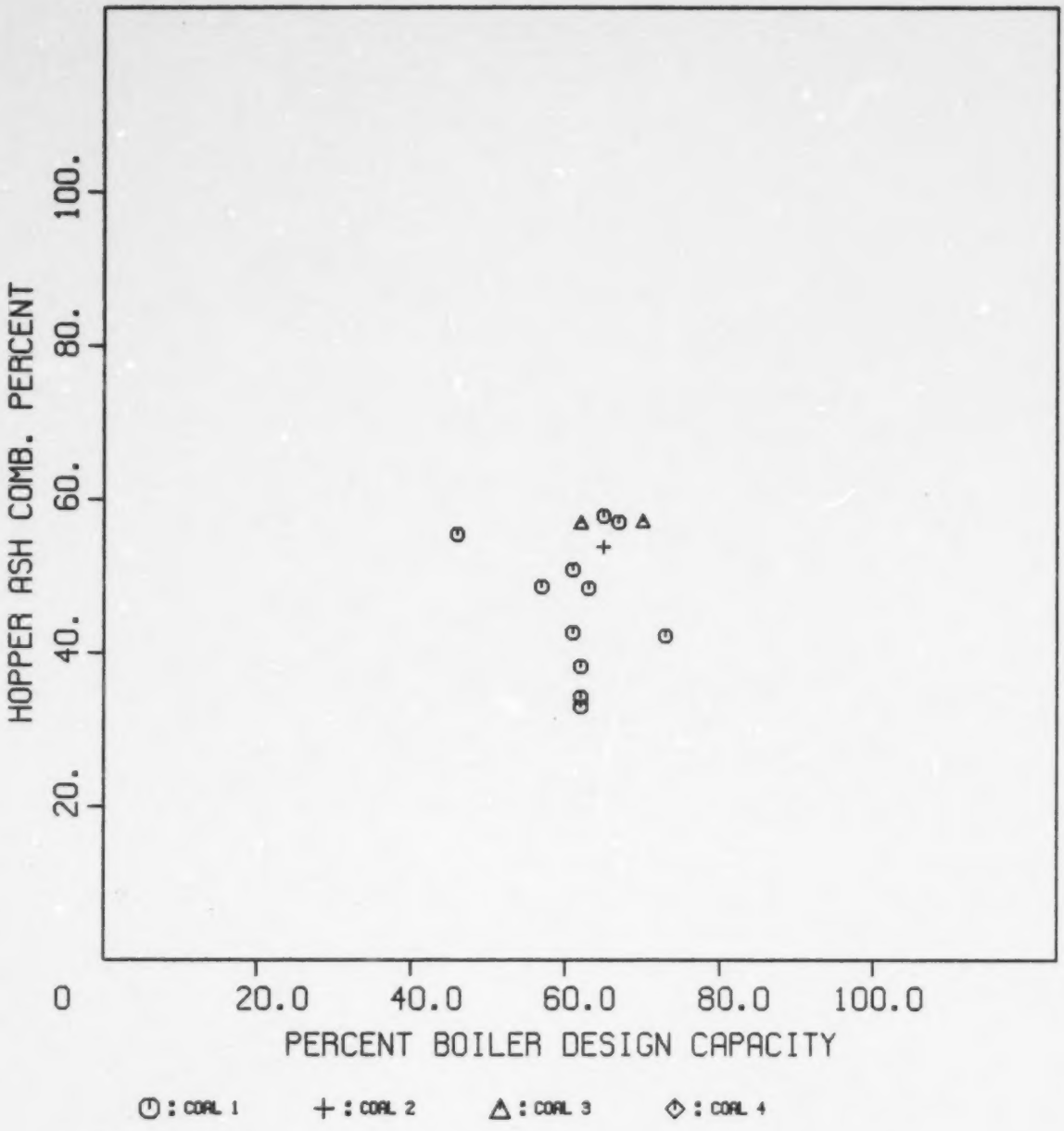


FIG. SITE E
HOPPER ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

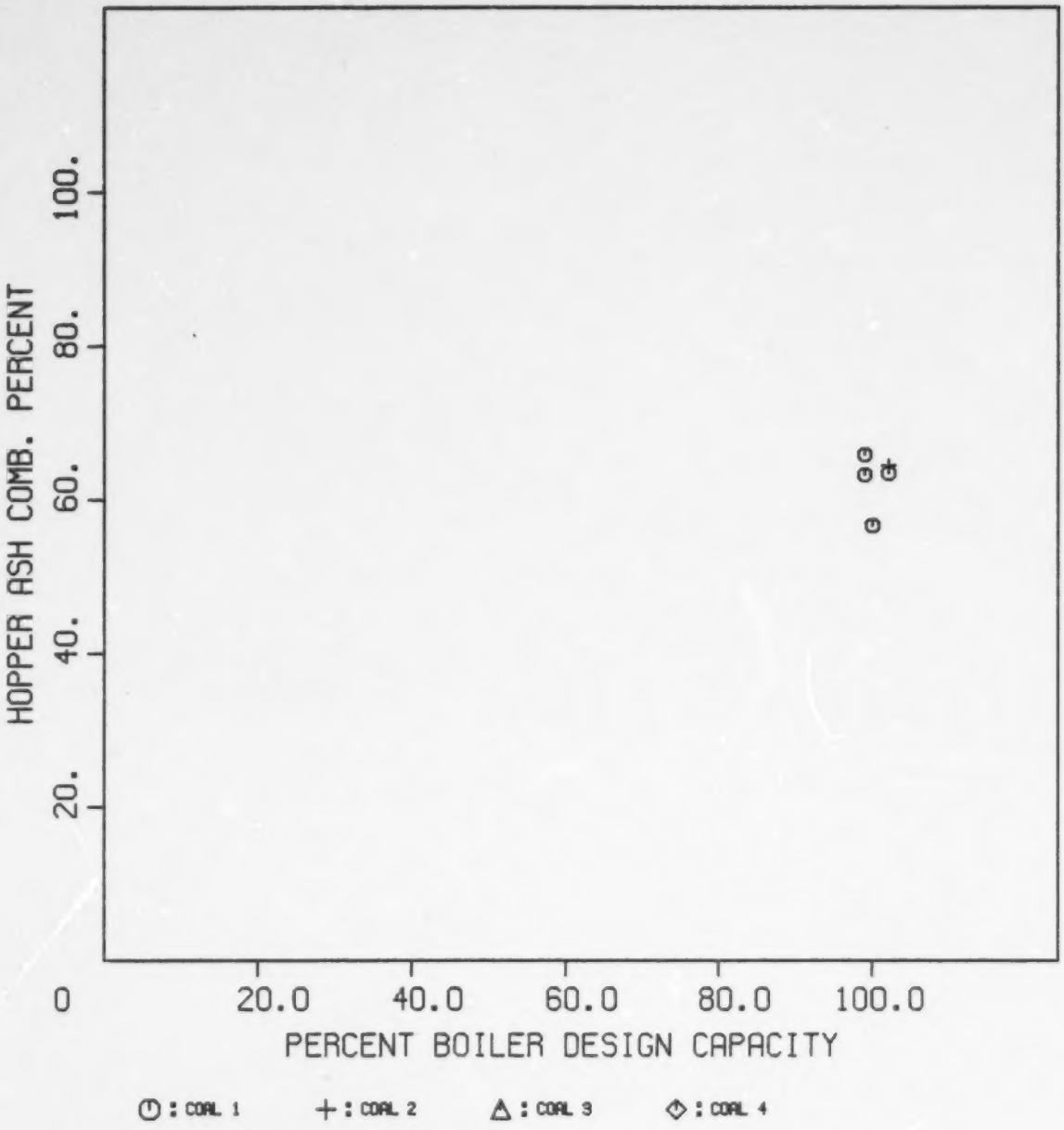


FIG. SITE F
HOPPER ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15800-554

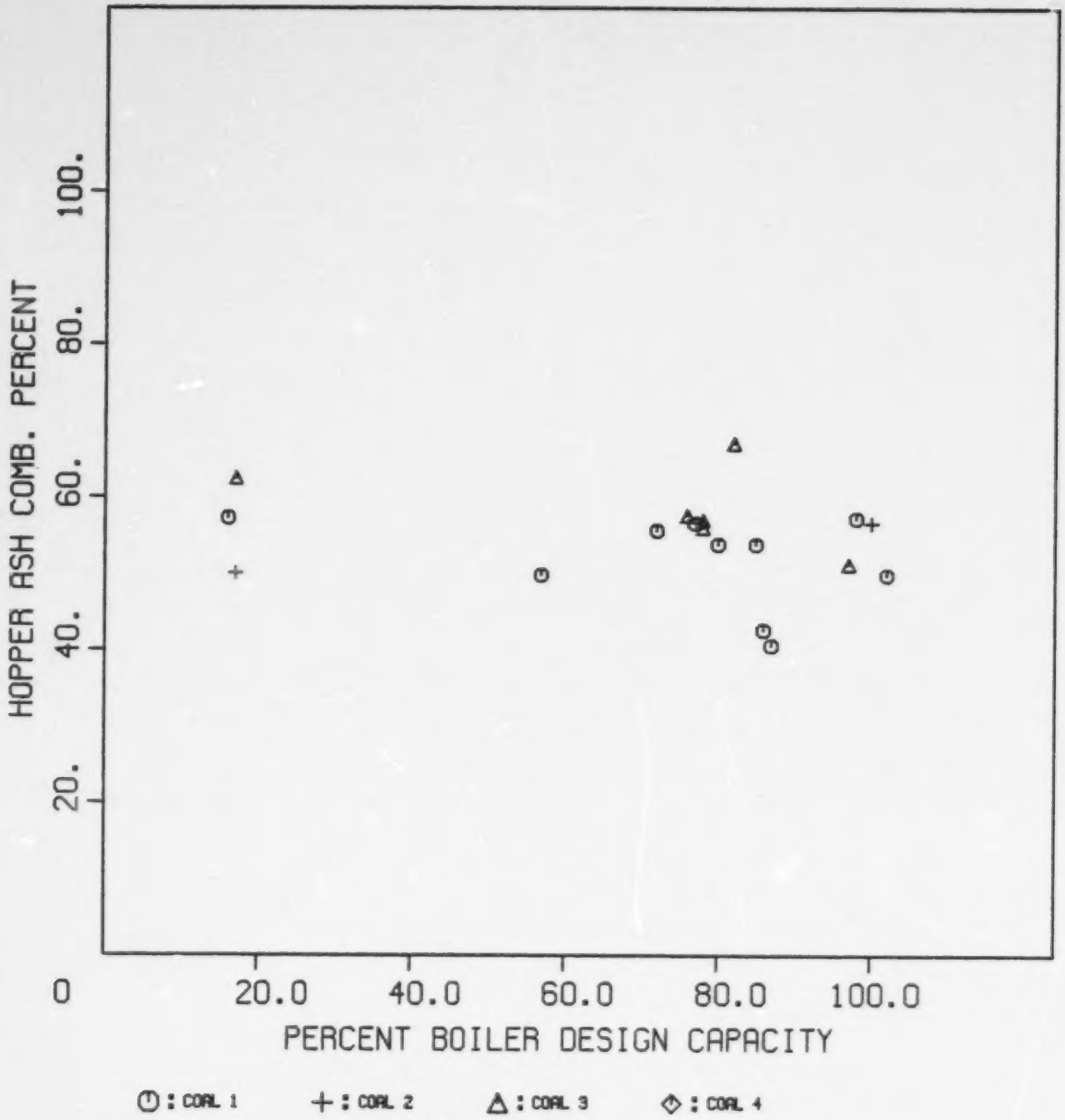


FIG. SITE G
HOPPER ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

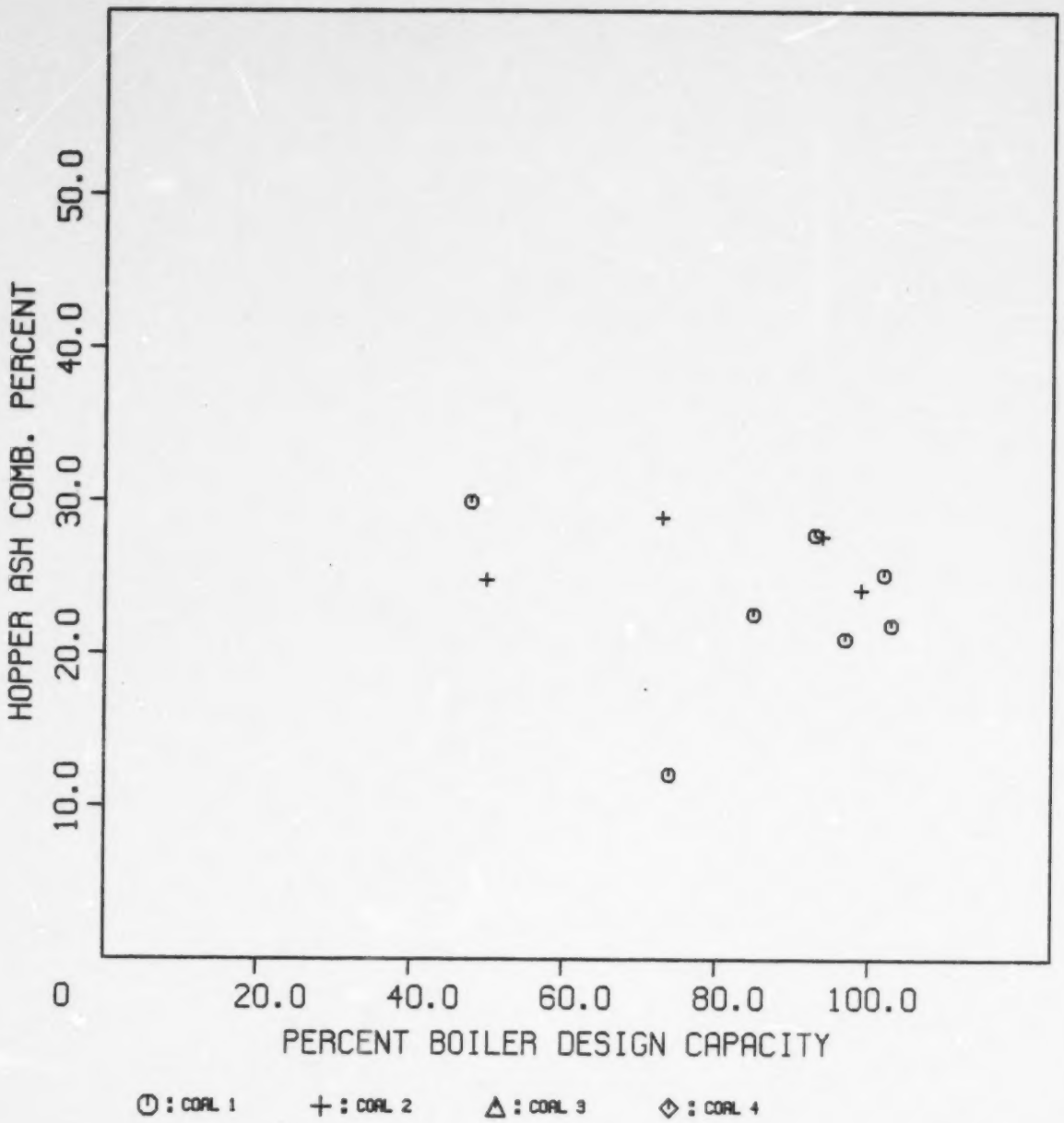


FIG. SITE J
HOPPER ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15800-554

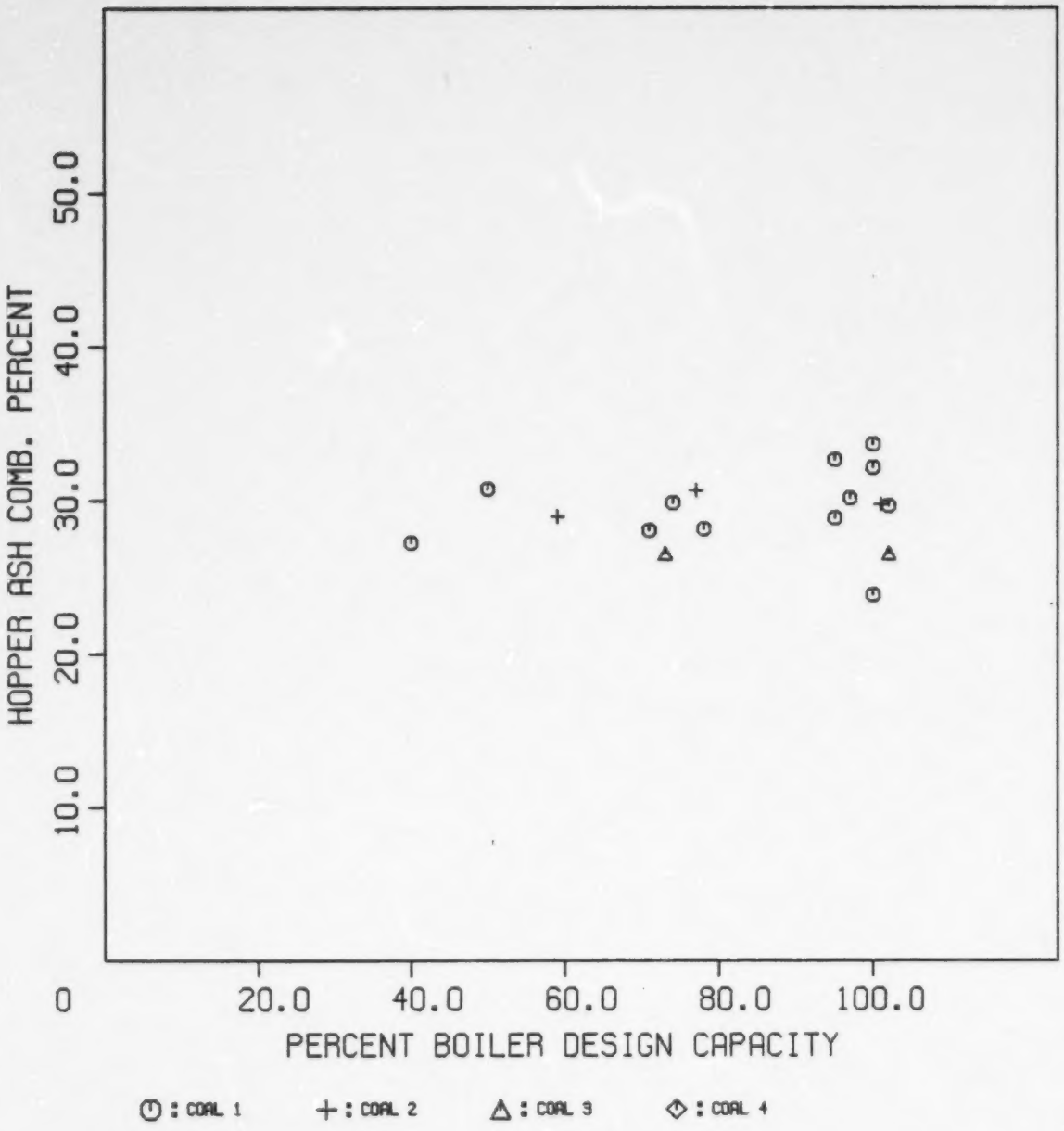


FIG. SITE K
HOPPER ASH COMB. VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

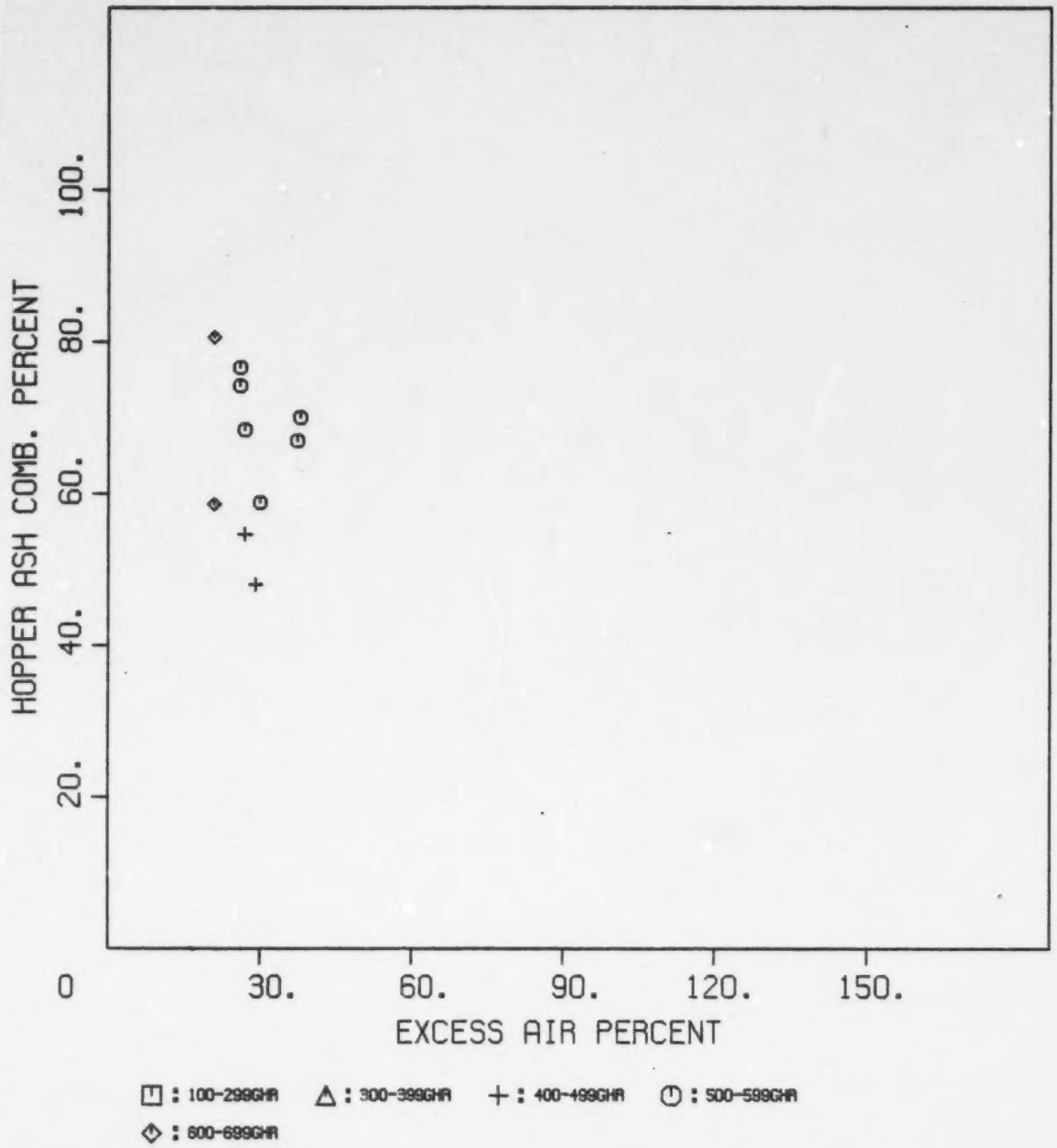


FIG. SITE A
HOPPER ASH COMB. VS. EXCESS AIR

KVB4-15900-554

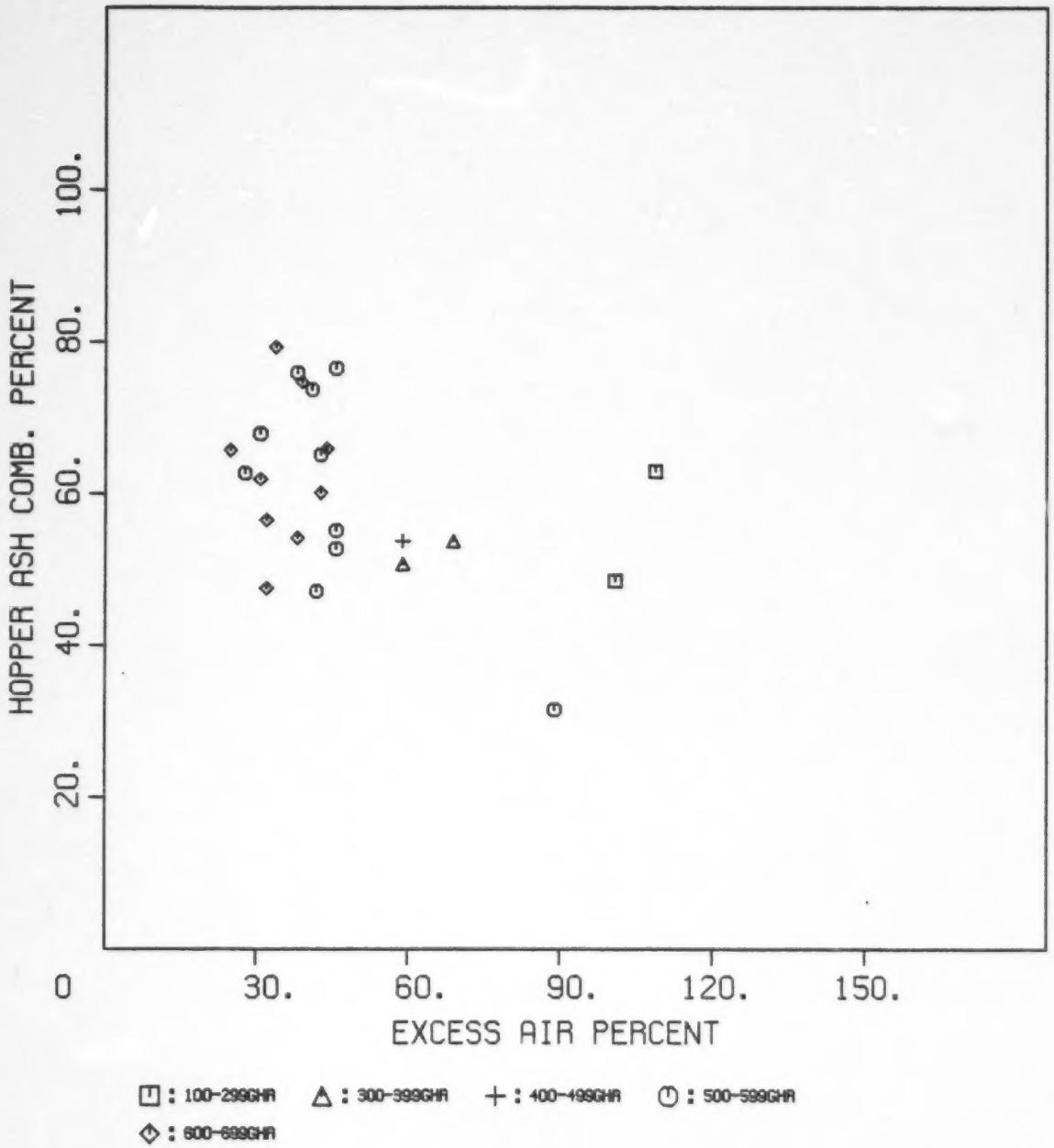


FIG. SITE B
HOPPER ASH COMB. VS. EXCESS AIR

KVB4-15900-554

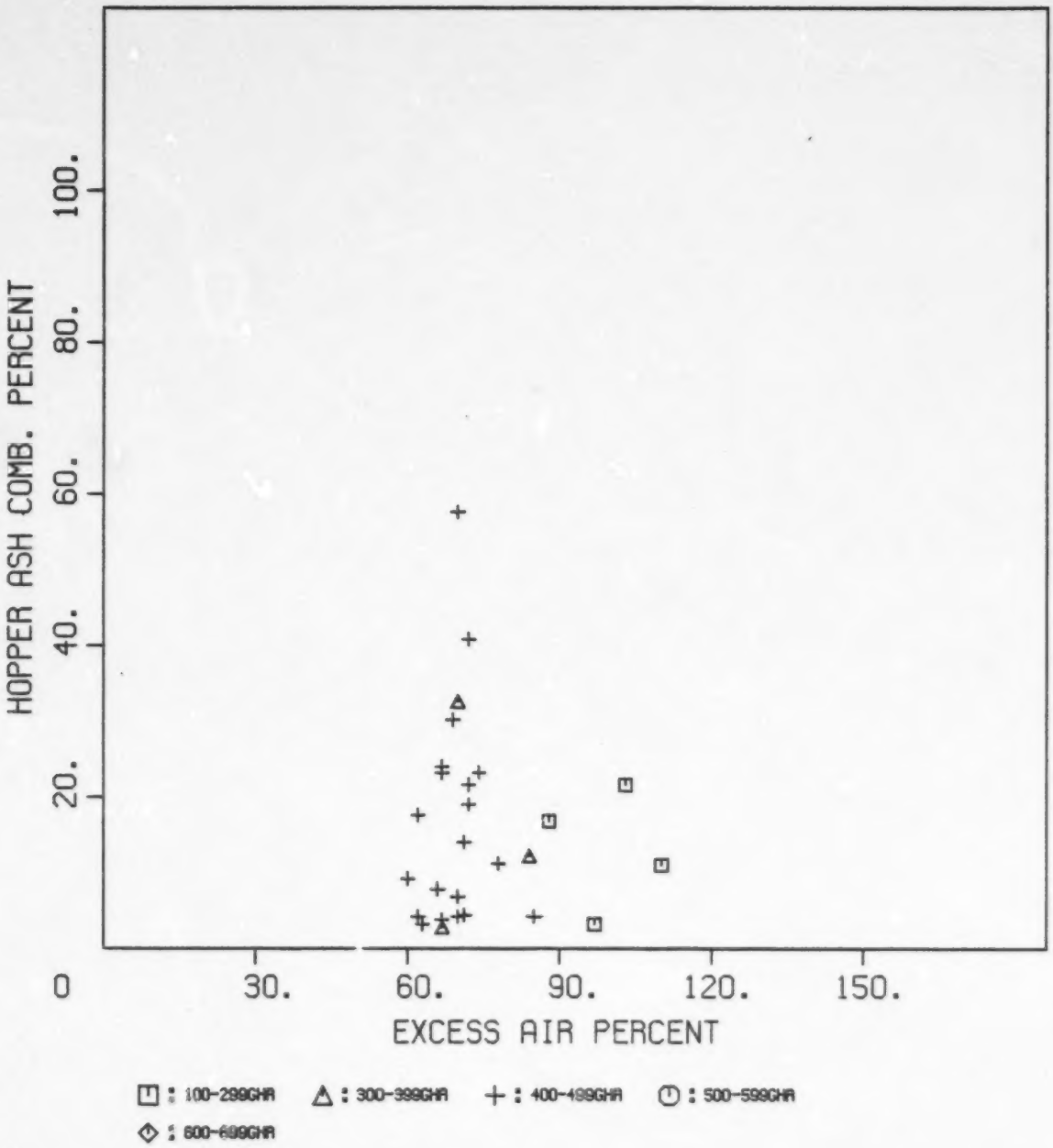


FIG. SITE C
HOPPER ASH COMB. VS. EXCESS AIR

KVB4-15900-554

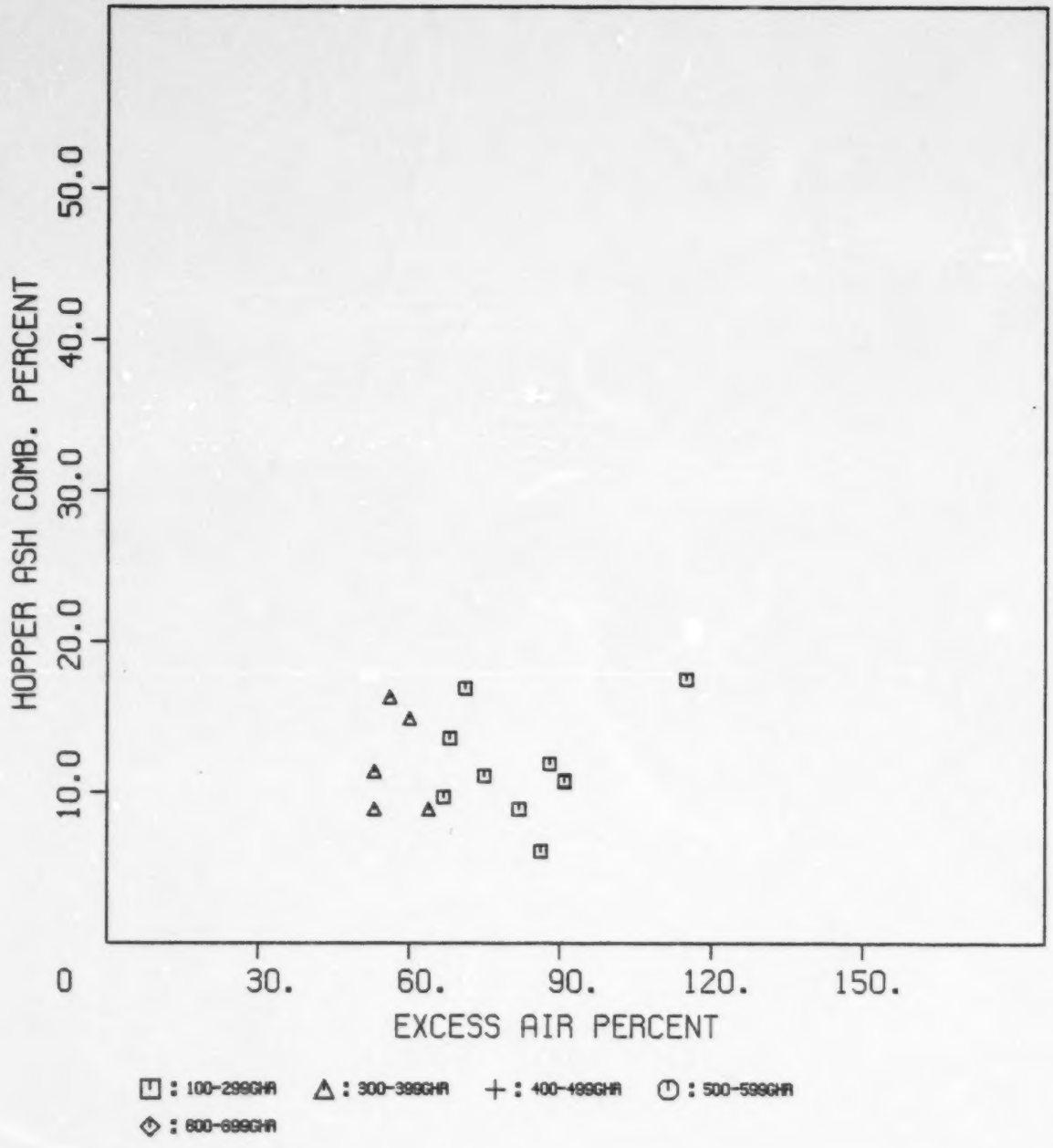


FIG. SITE D
HOPPER ASH COMB. VS. EXCESS AIR

KVB4-15900-554

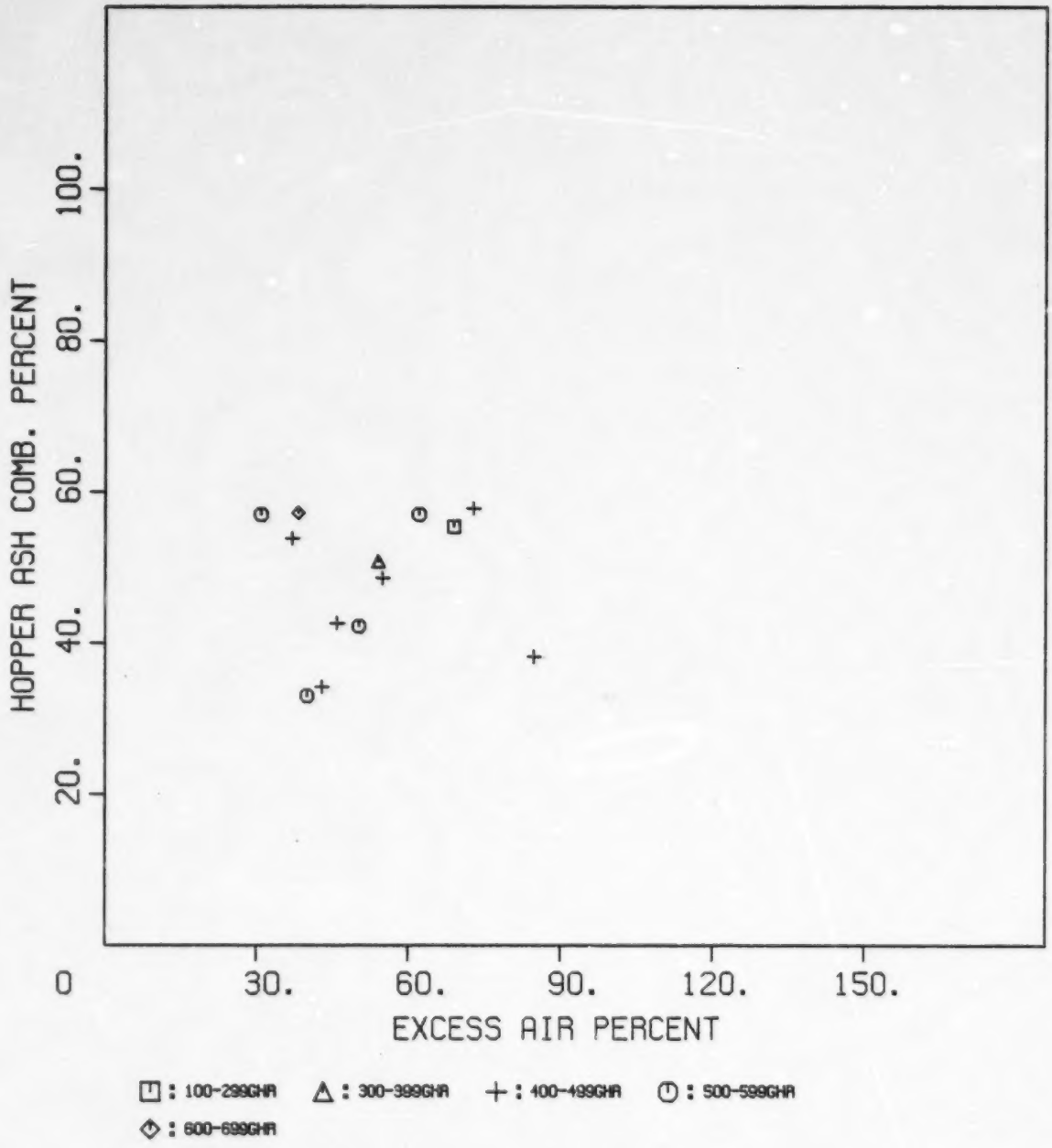


FIG. SITE E
HOPPER ASH COMB. VS. EXCESS AIR

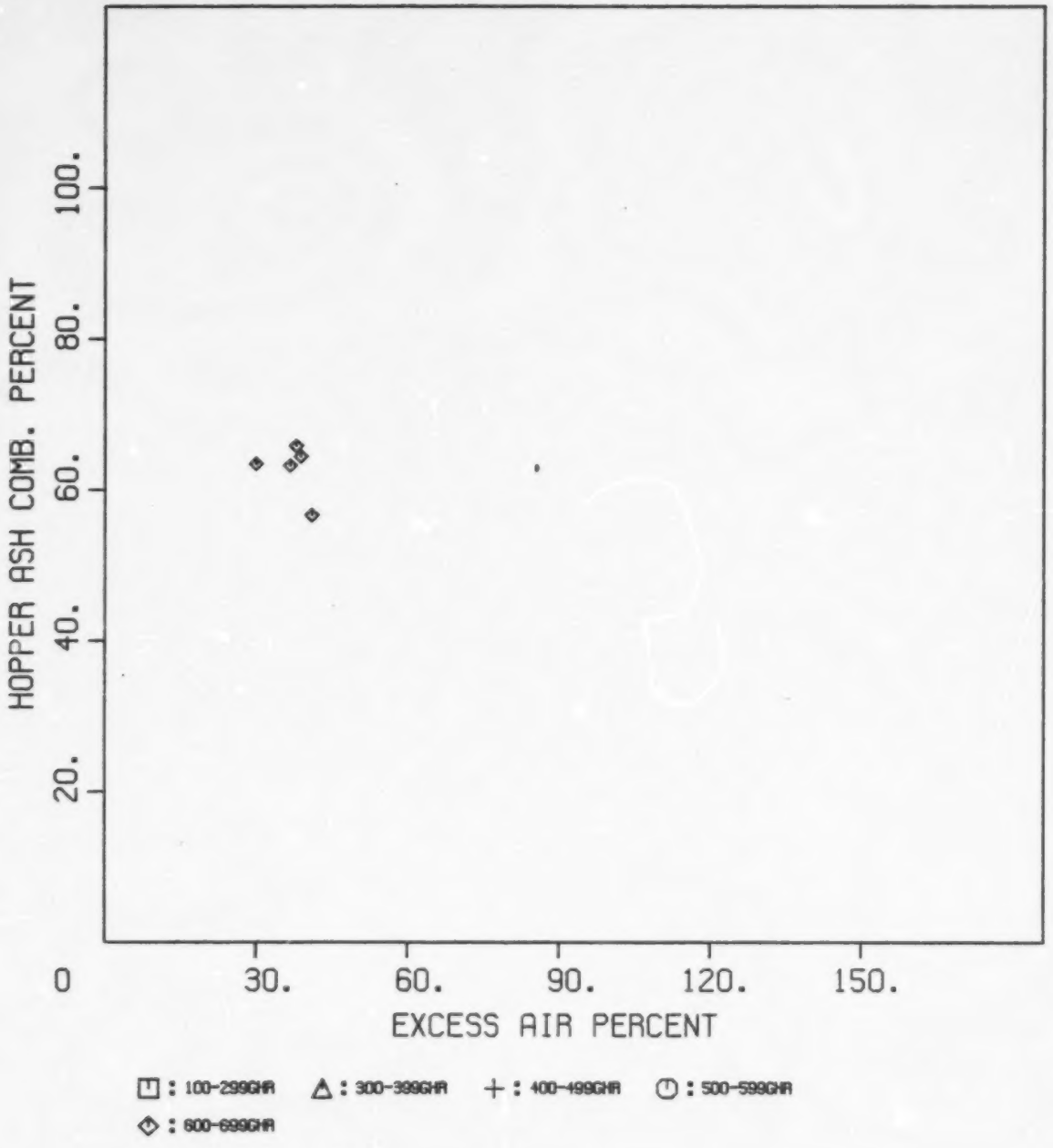


FIG. SITE F
HOPPER ASH COMB. VS. EXCESS AIR

KVB4-15800-554

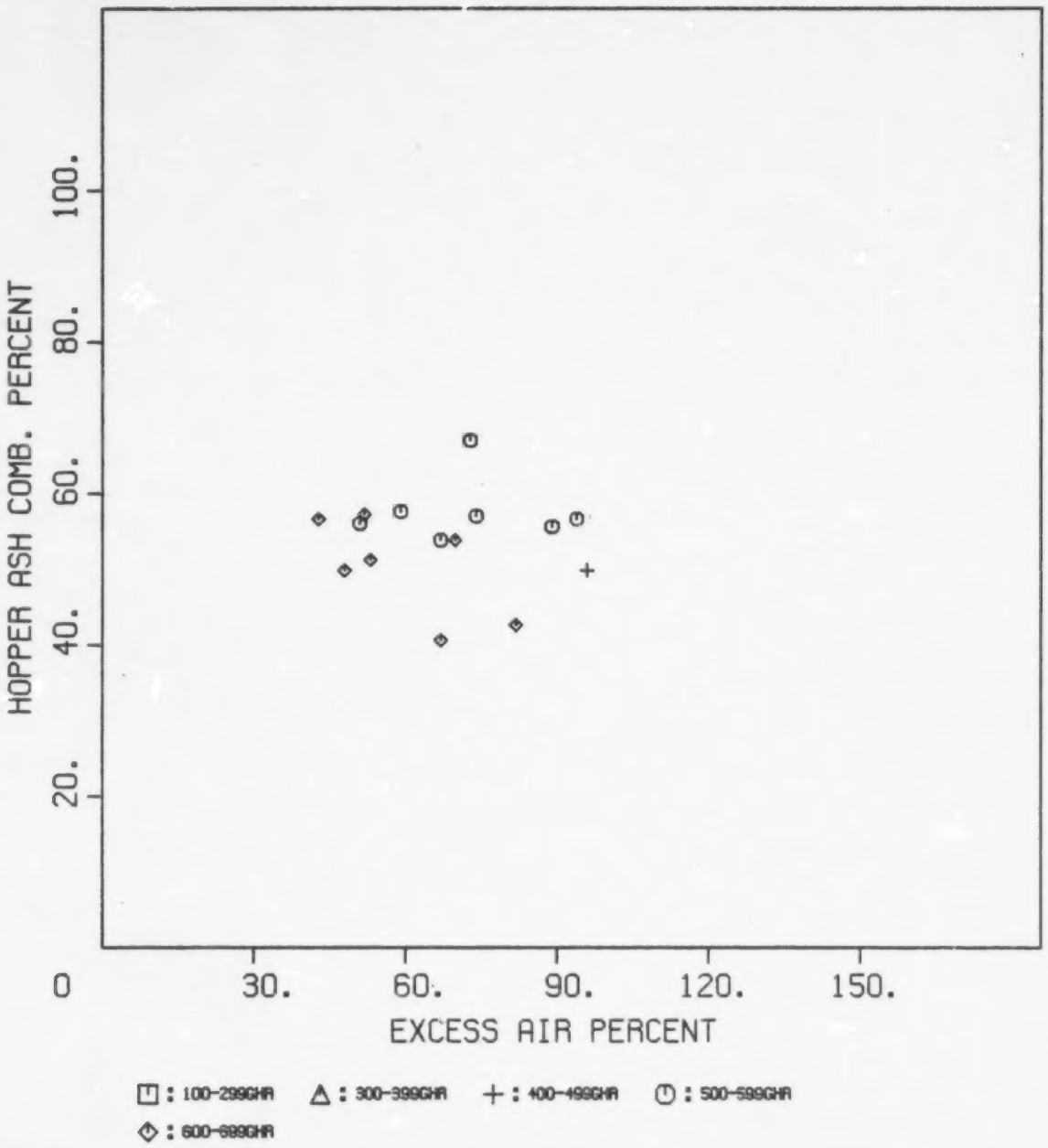


FIG. SITE G
HOPPER ASH COMB. VS. EXCESS AIR

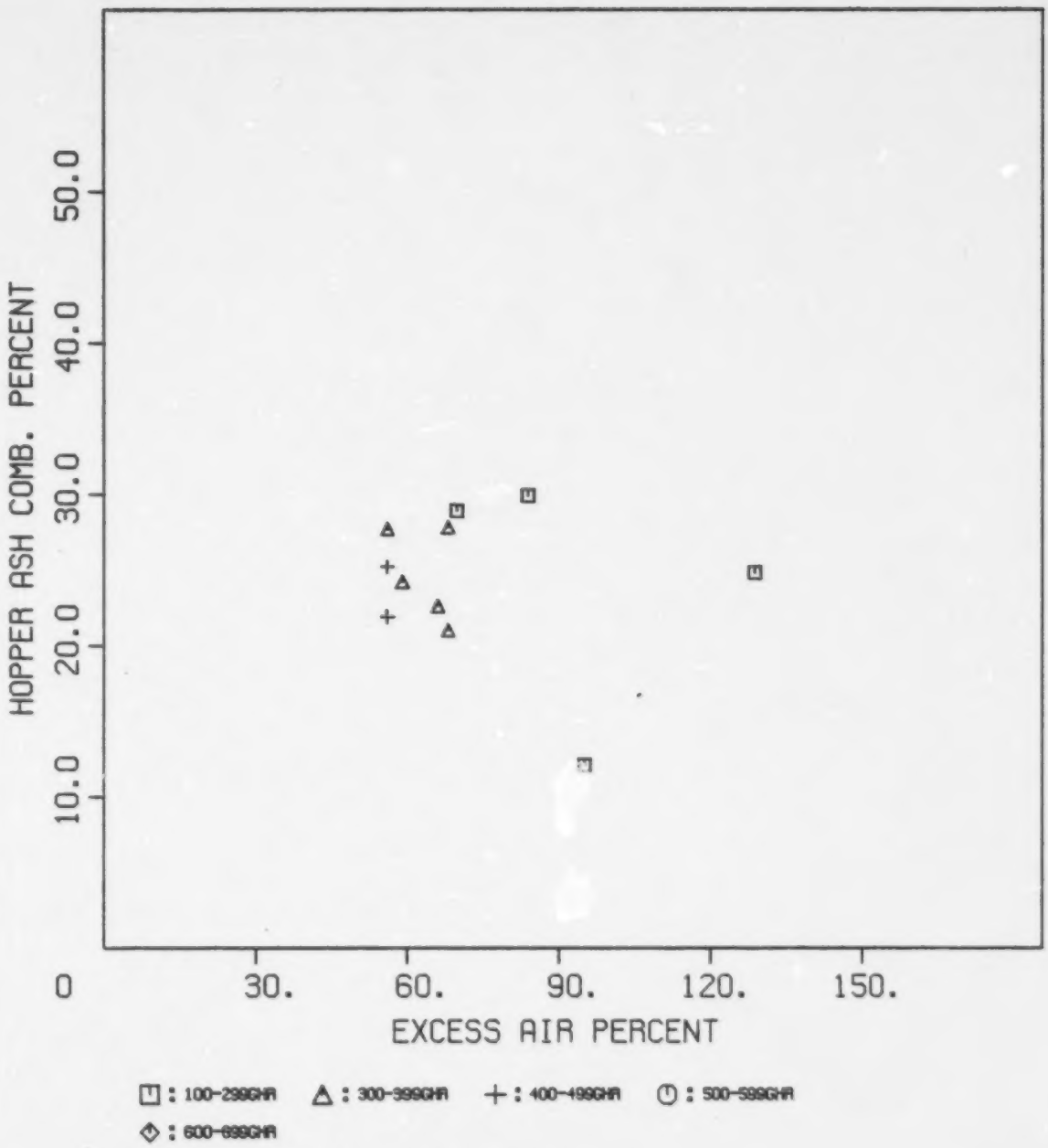


FIG. SITE J
HOPPER ASH COMB. VS. EXCESS AIR

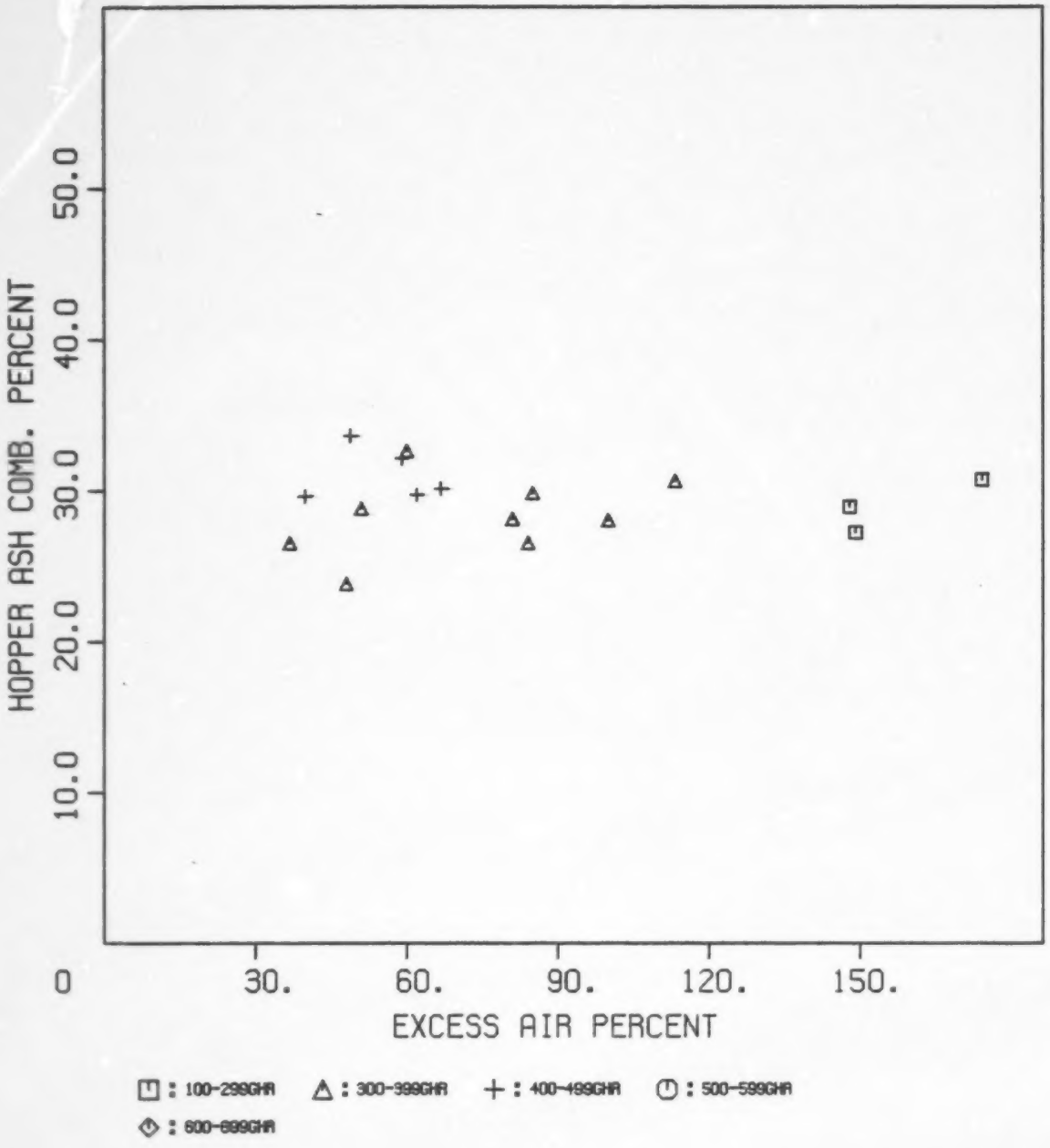


FIG. SITE K
HOPPER ASH COMB. VS. EXCESS AIR

KVB4-15900-554

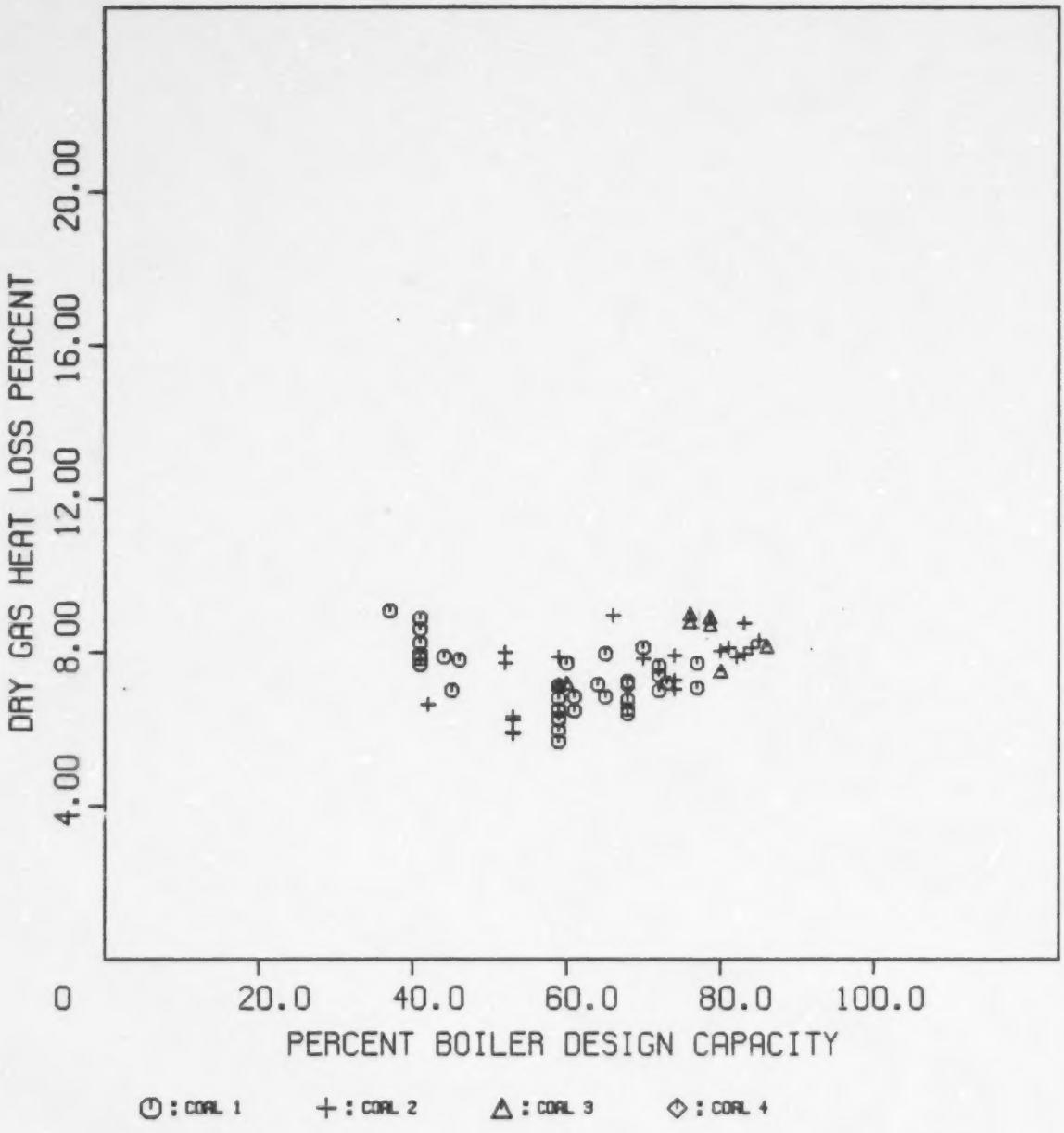


FIG. SITE A
DRY GAS HEAT LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

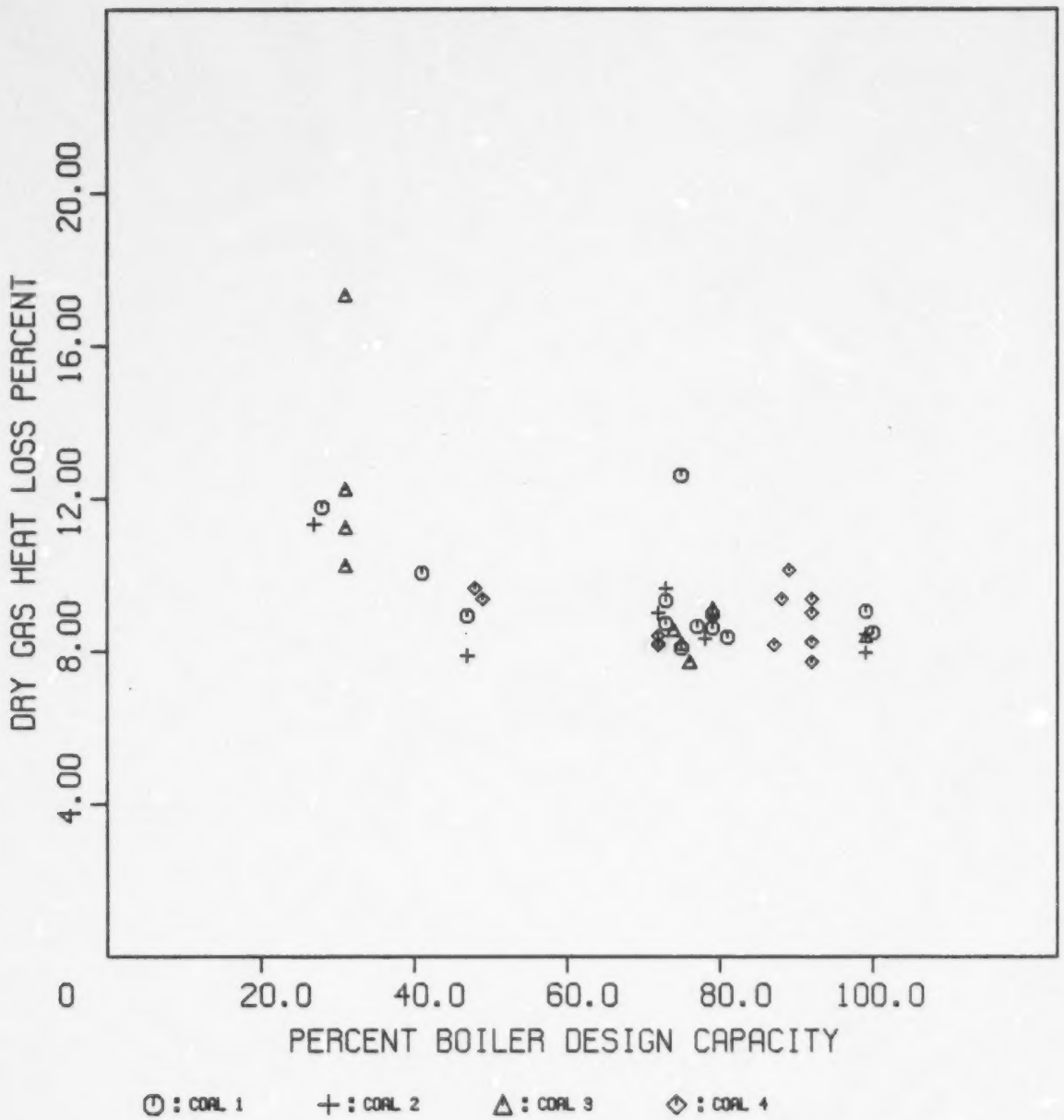


FIG. SITE B
DRY GAS HEAT LOSS VS. PERCENT BOILER DESIGN CAPACITY

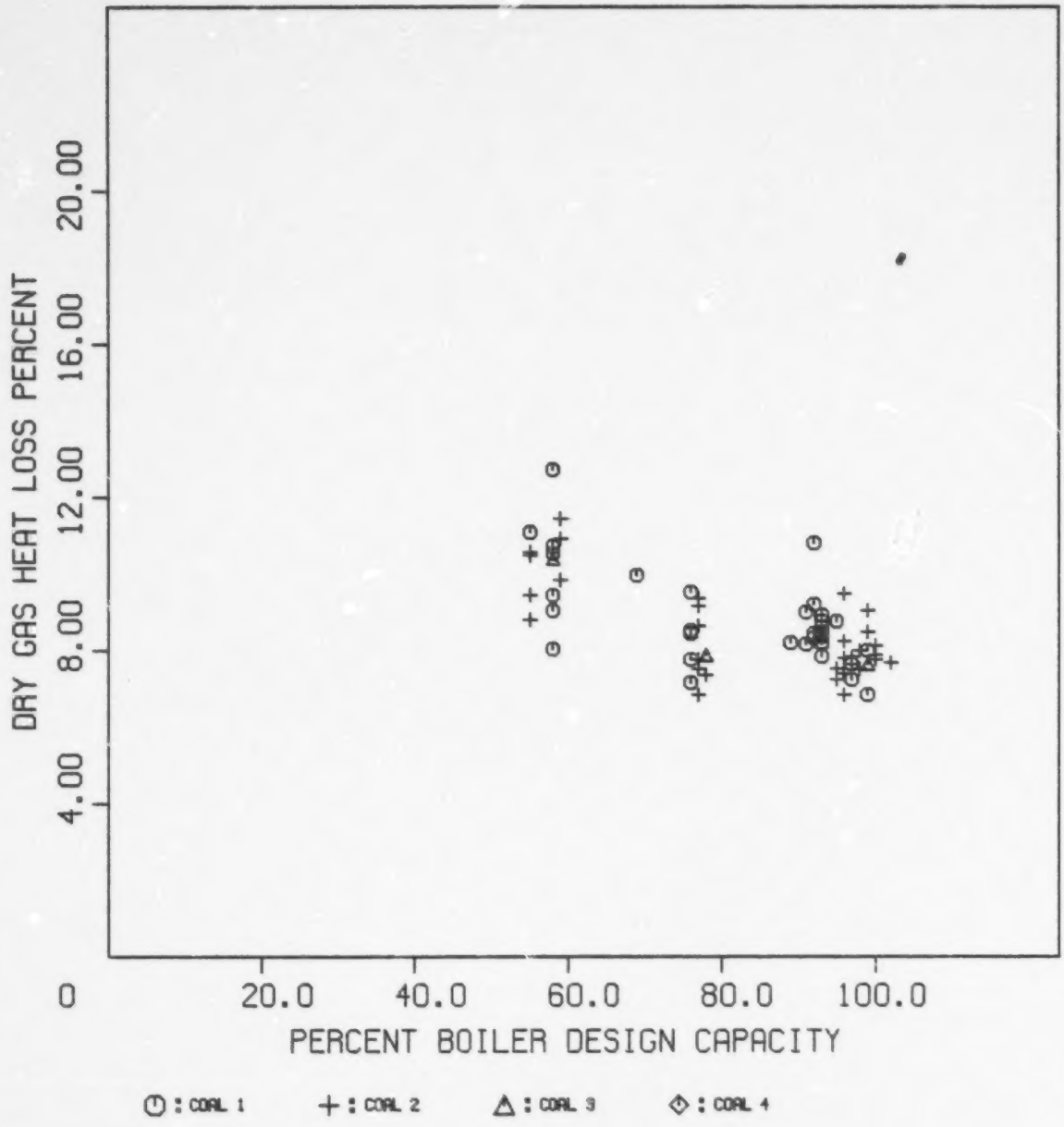


FIG. SITE C
DRY GAS HEAT LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15800-554

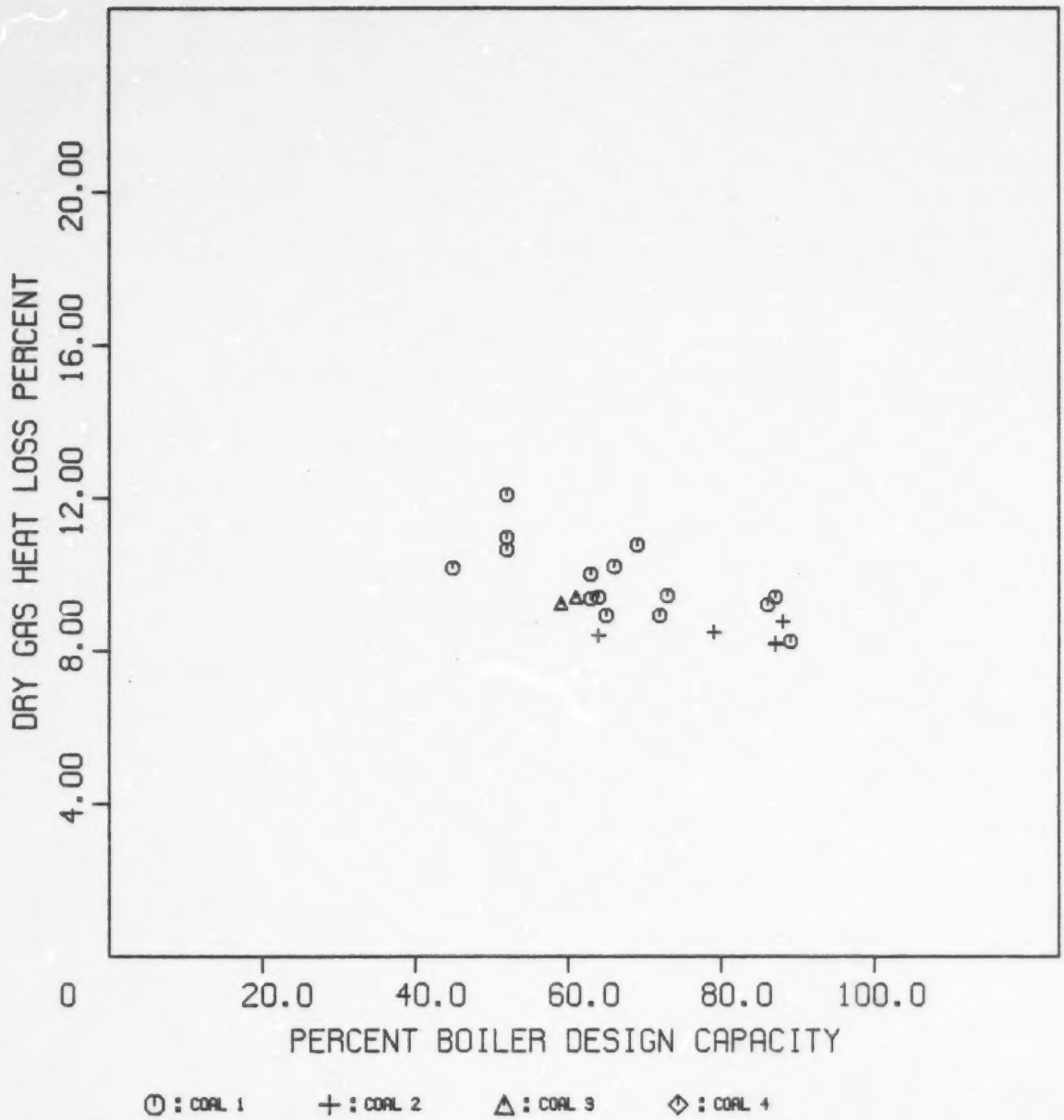


FIG. SITE D
DRY GAS HEAT LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

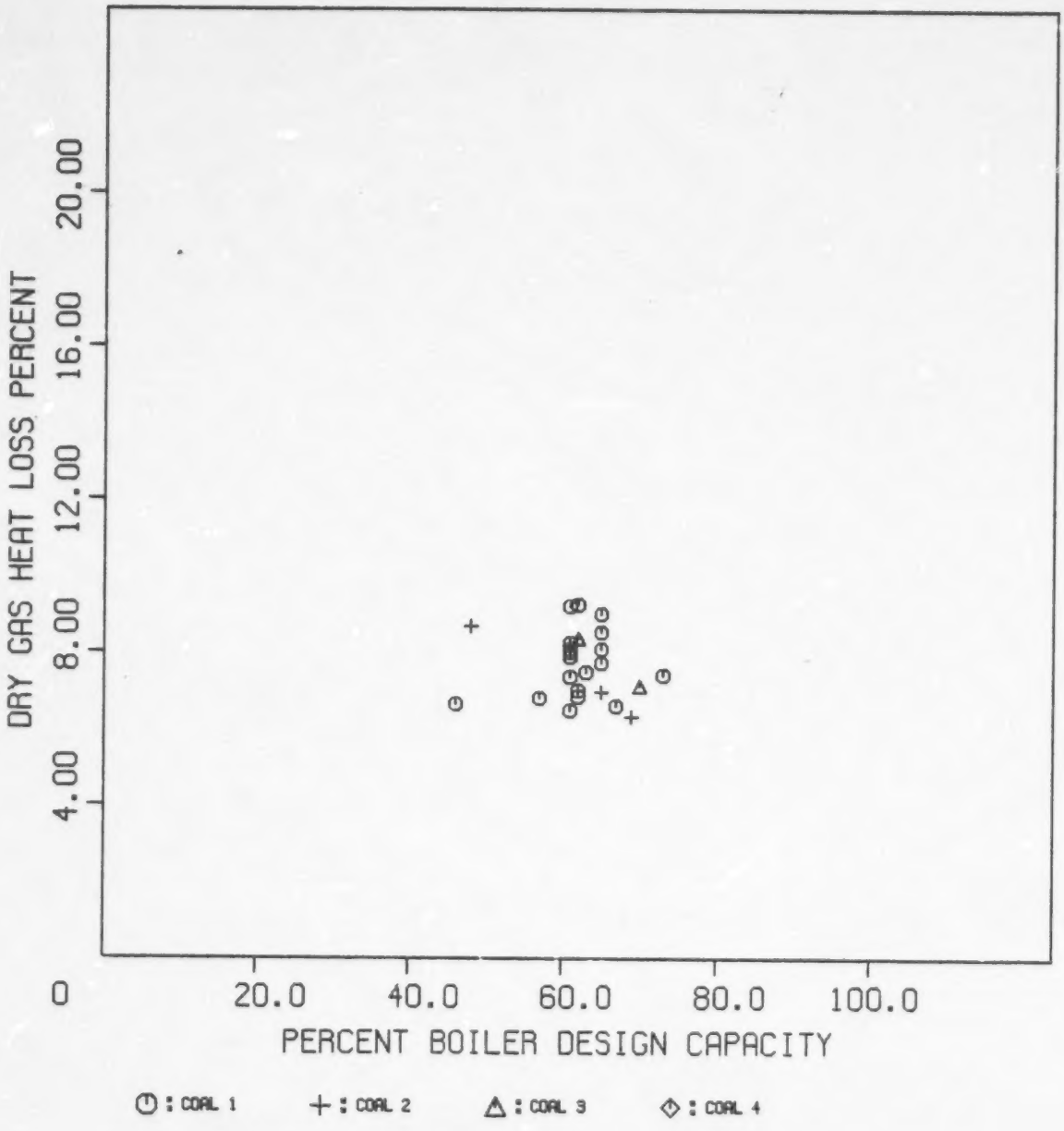


FIG. SITE E
DRY GAS HEAT LOSS VS. PERCENT BOILER DESIGN CAPACITY

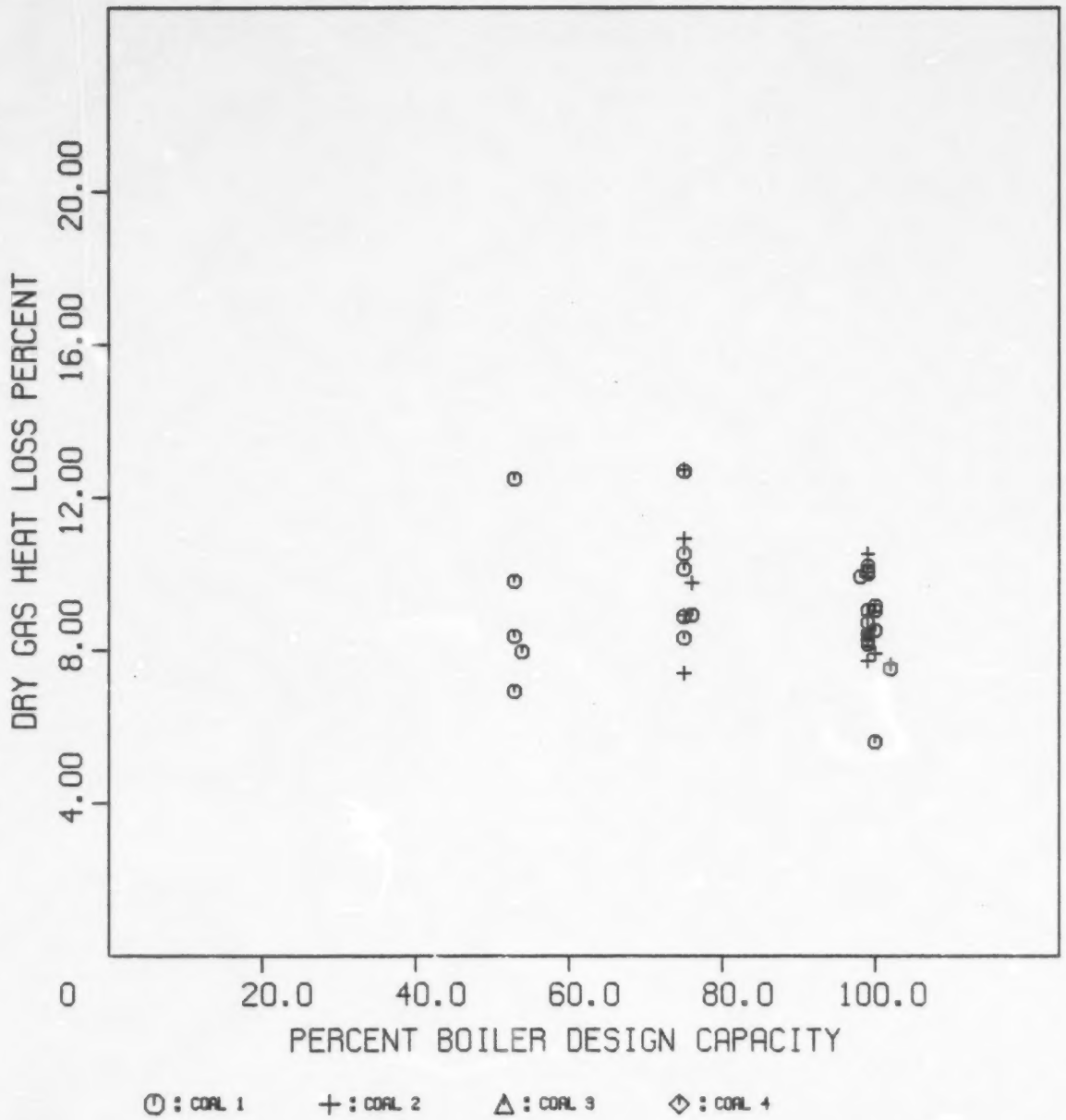


FIG. SITE F
DRY GAS HEAT LOSS VS. PERCENT BOILER DESIGN CAPACITY

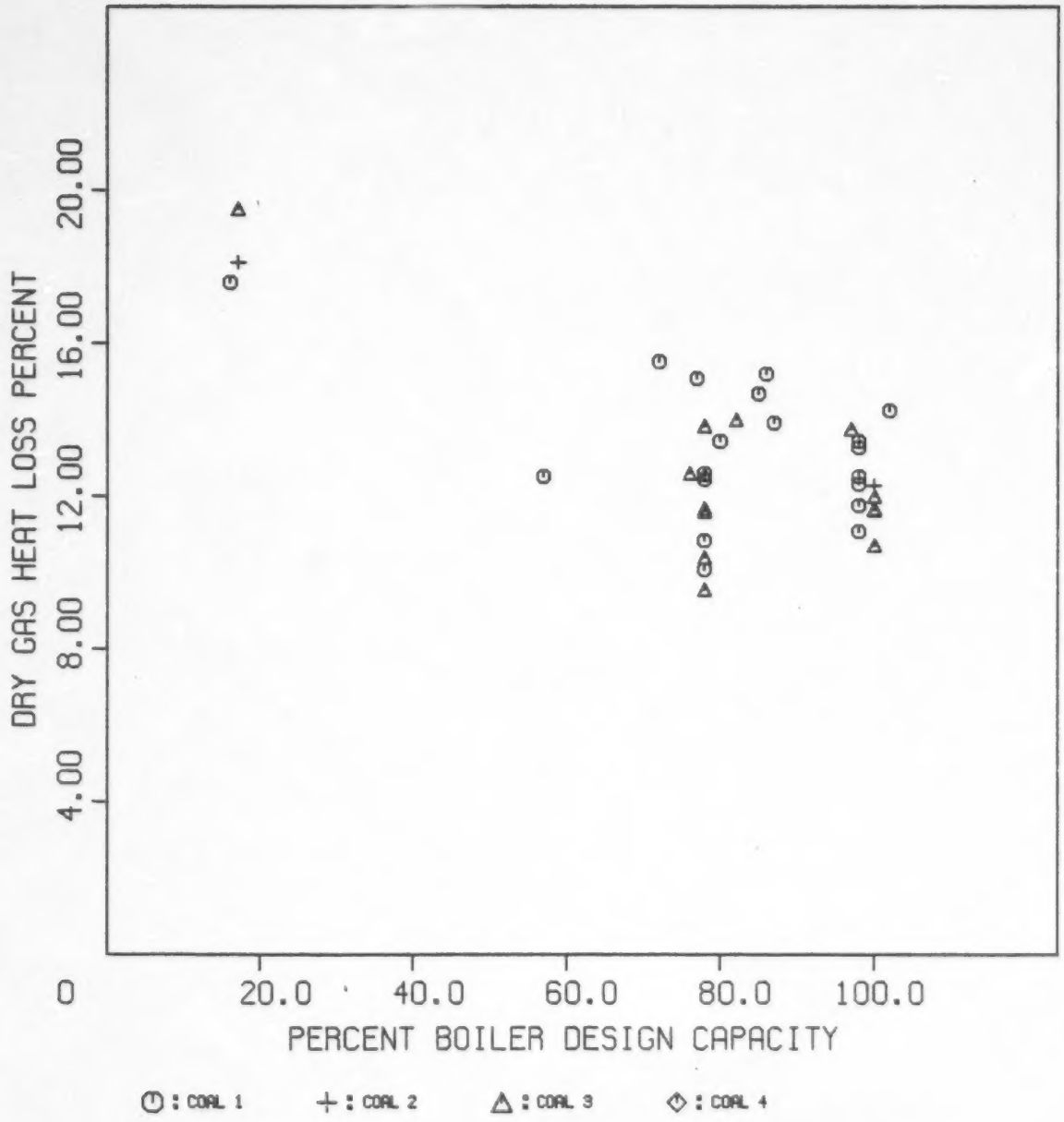


FIG. SITE G
DRY GAS HEAT LOSS VS. PERCENT BOILER DESIGN CAPACITY

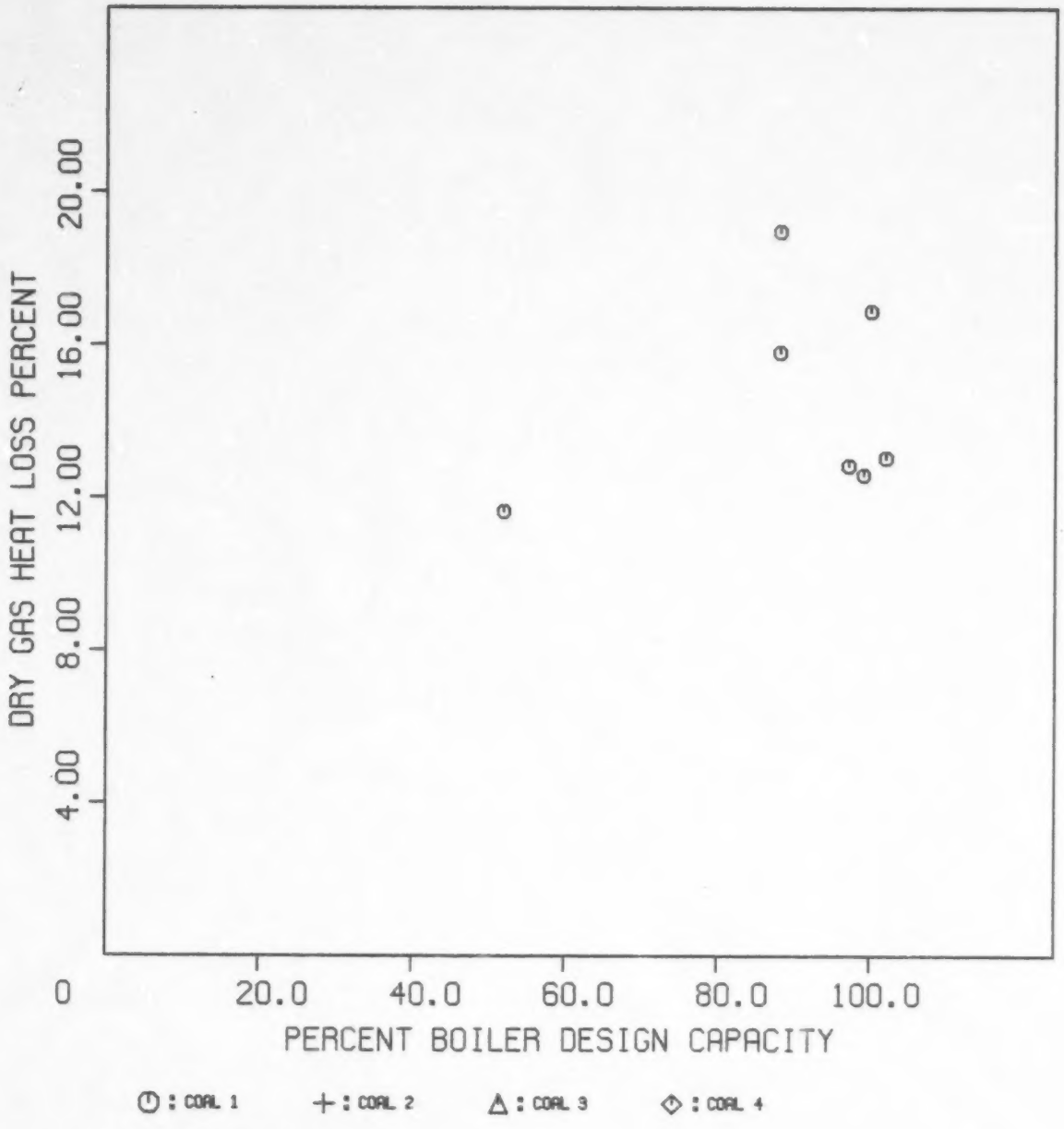


FIG. SITE H
DRY GAS HEAT LOSS VS. PERCENT BOILER DESIGN CAPACITY

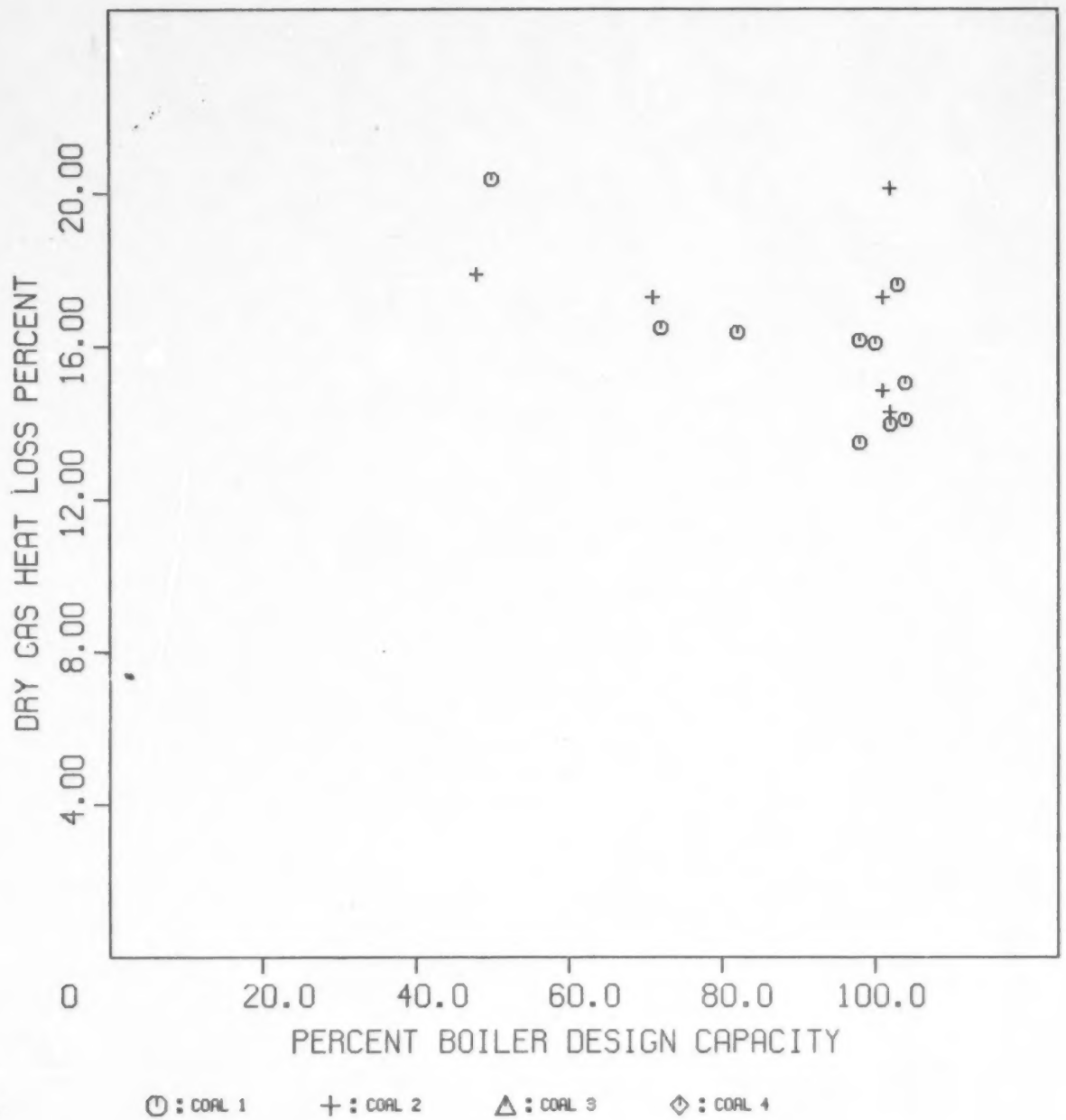


FIG. SITE I
DRY GAS HEAT LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

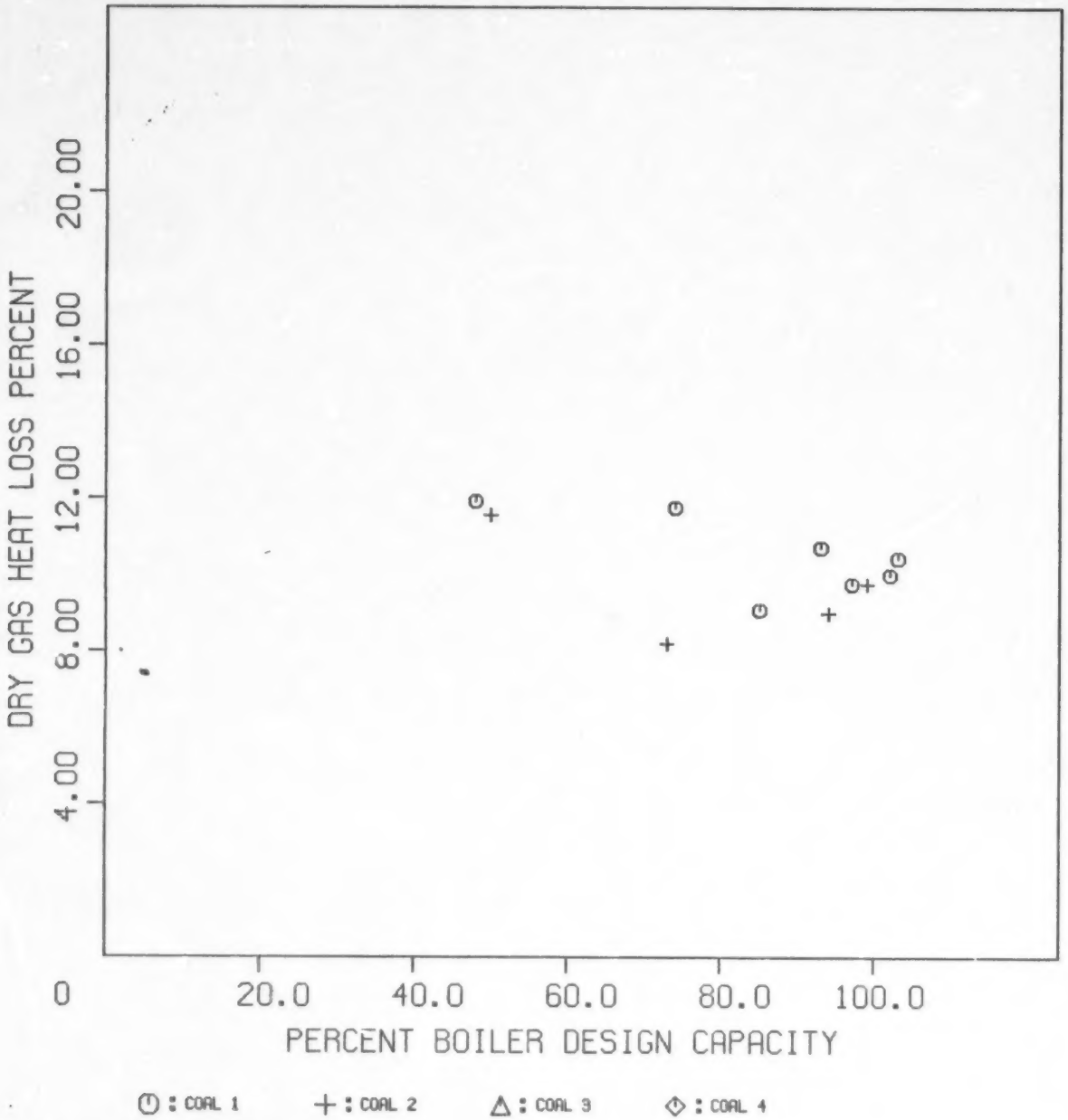


FIG. SITE J
DRY GAS HEAT LOSS VS. PERCENT BOILER DESIGN CAPACITY

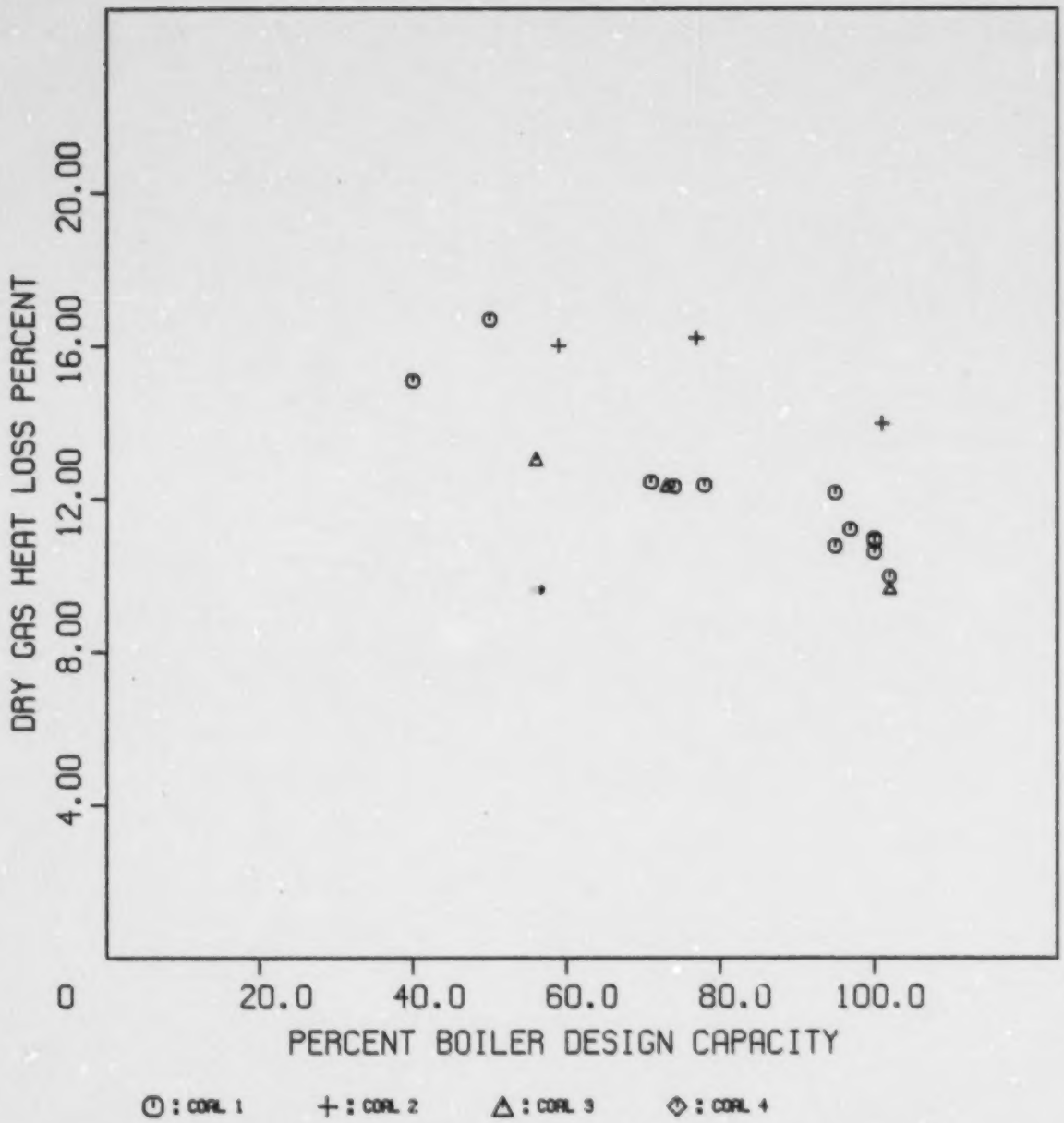


FIG. SITE K
DRY GAS HEAT LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

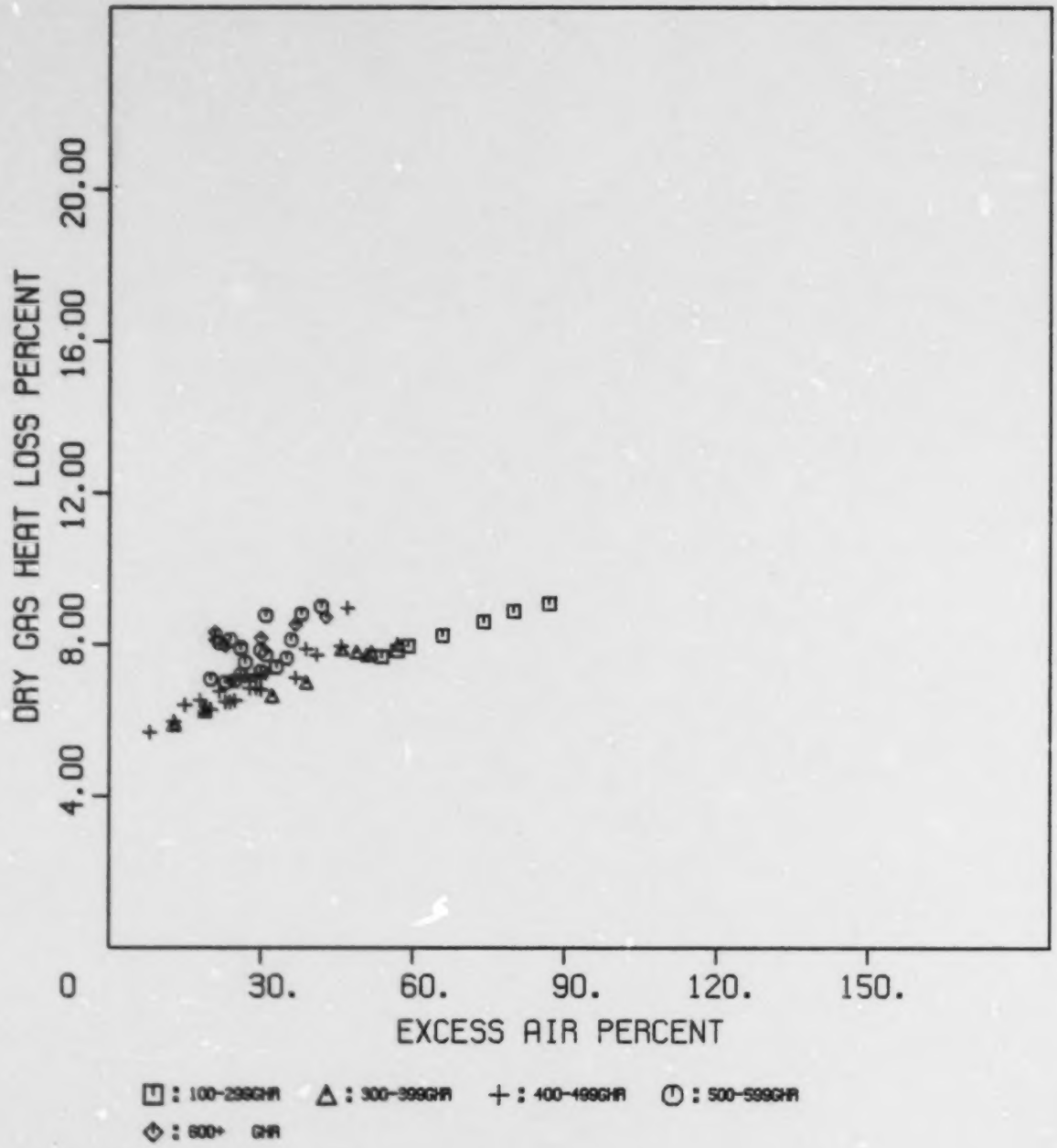


FIG. SITE A
DRY GAS HEAT LOSS VS. EXCESS AIR

KYB4-15800-554

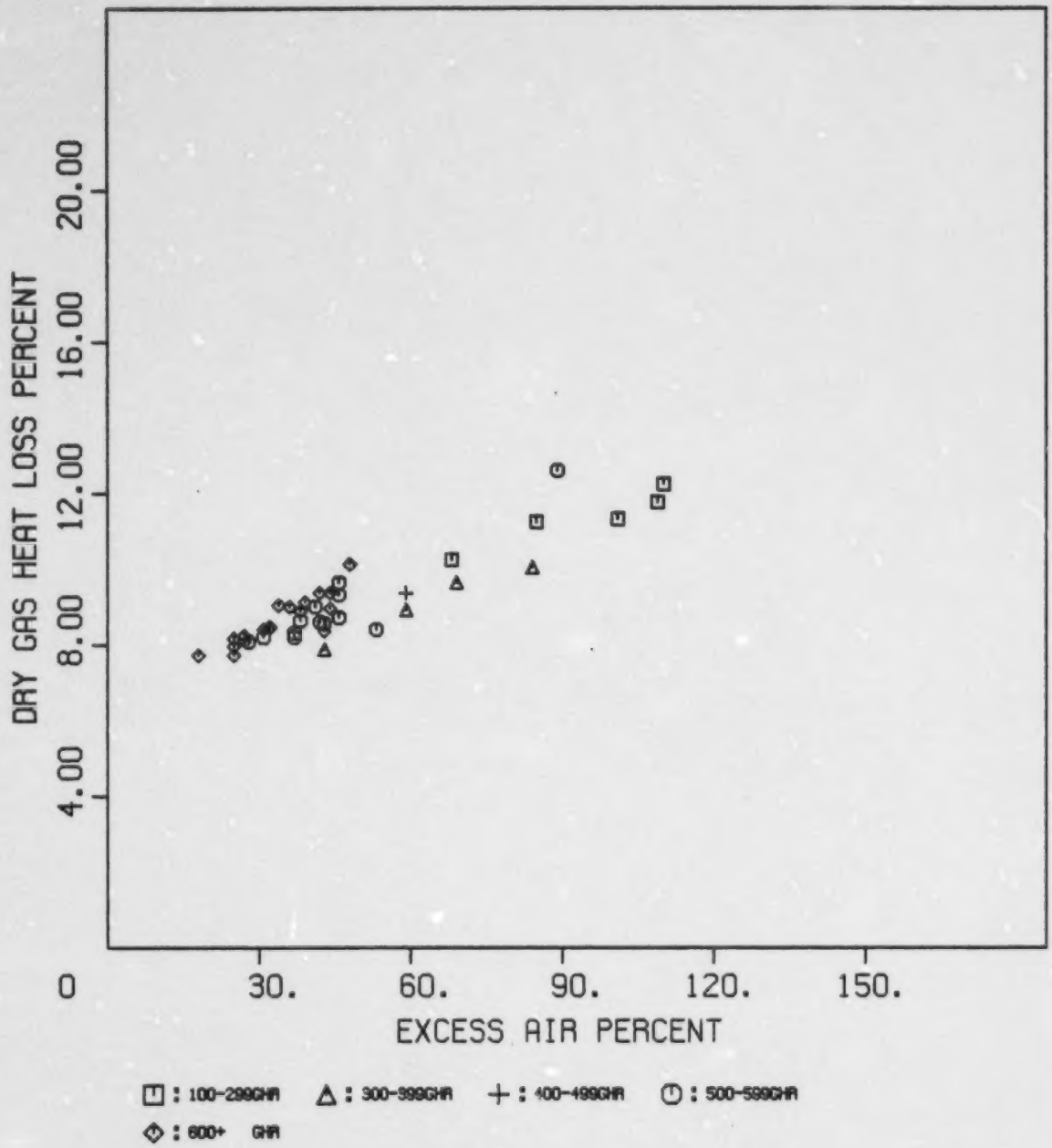


FIG. SITE B
DRY GAS HEAT LOSS VS. EXCESS AIR

KVB4-15900-554

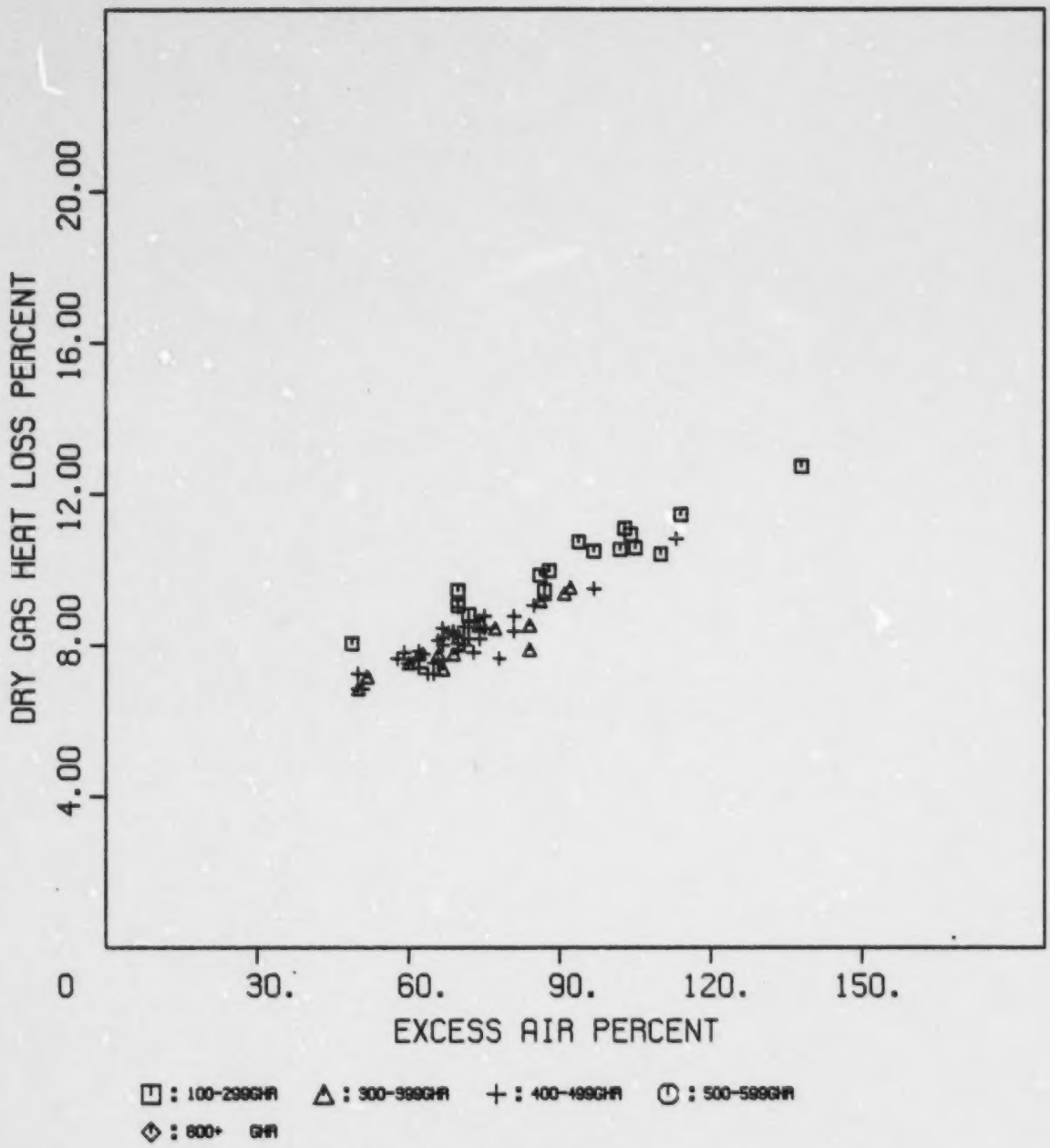


FIG. SITE C
DRY GAS HEAT LOSS VS. EXCESS AIR

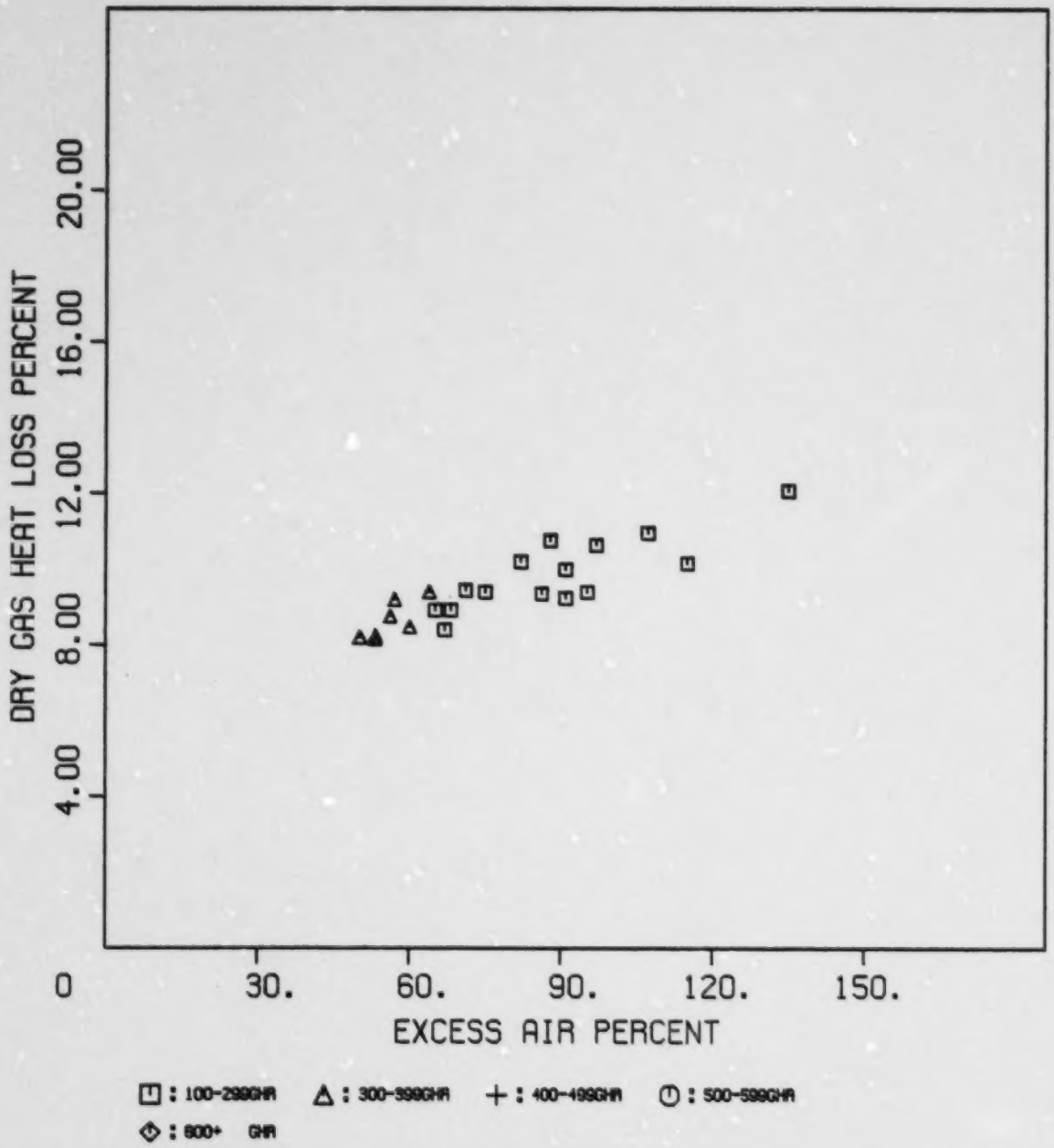


FIG. SITE D
DRY GAS HEAT LOSS VS. EXCESS AIR

KVB4-15900-554

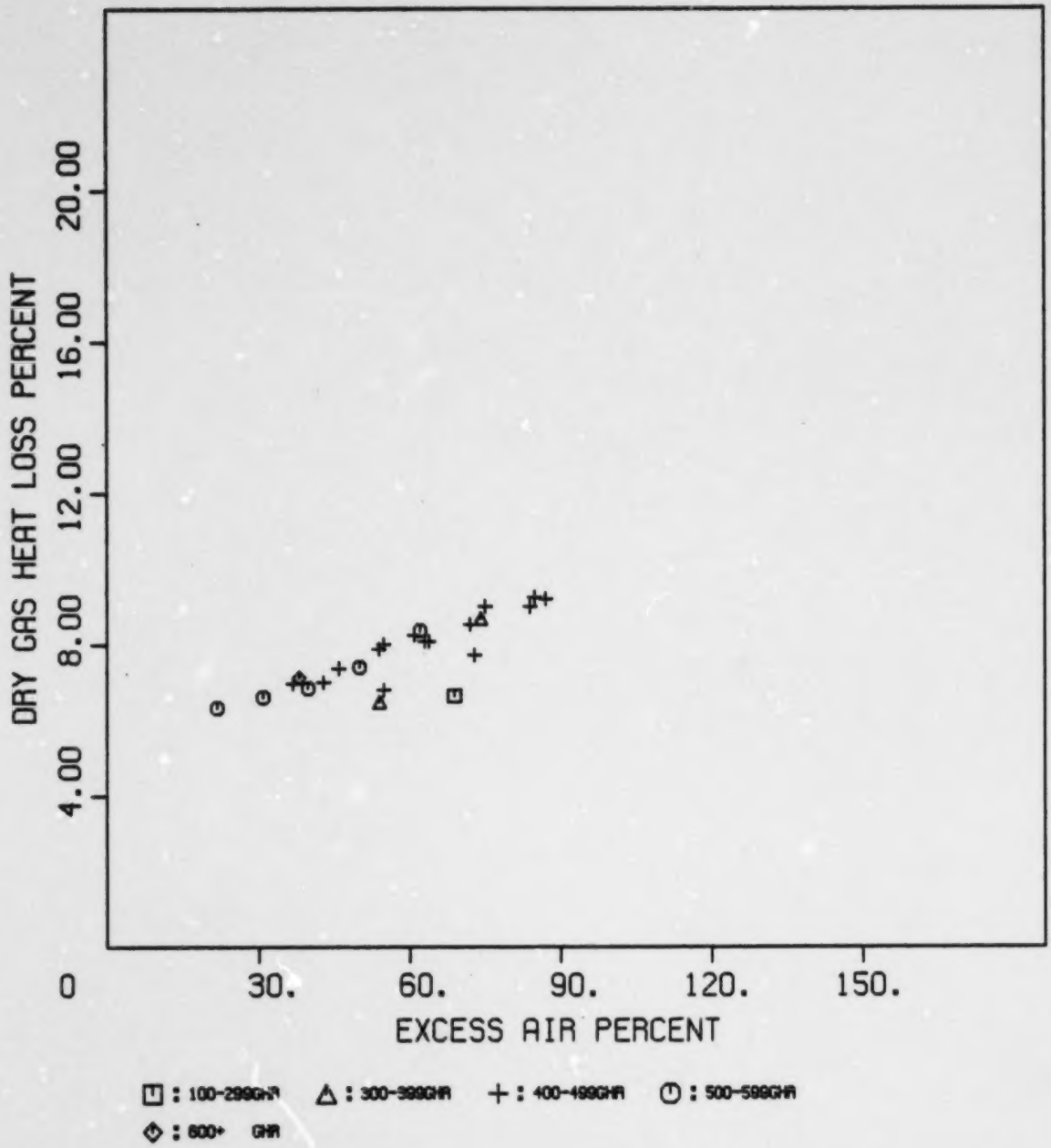


FIG. SITE E
DRY GAS HEAT LOSS VS. EXCESS AIR

KVB4-15800-554

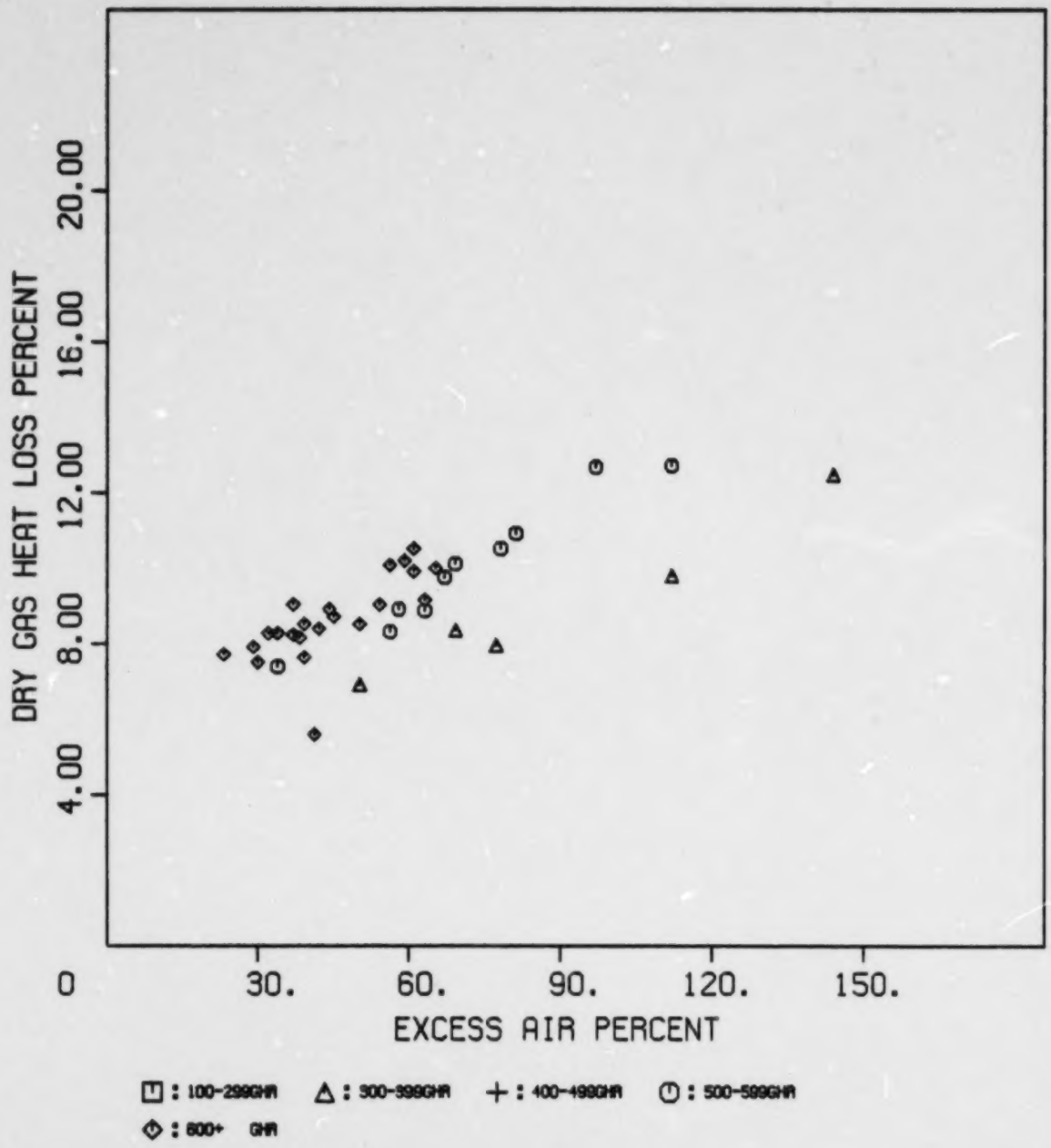


FIG. SITE F
DRY GAS HEAT LOSS VS. EXCESS AIR

KVB4-15800-554

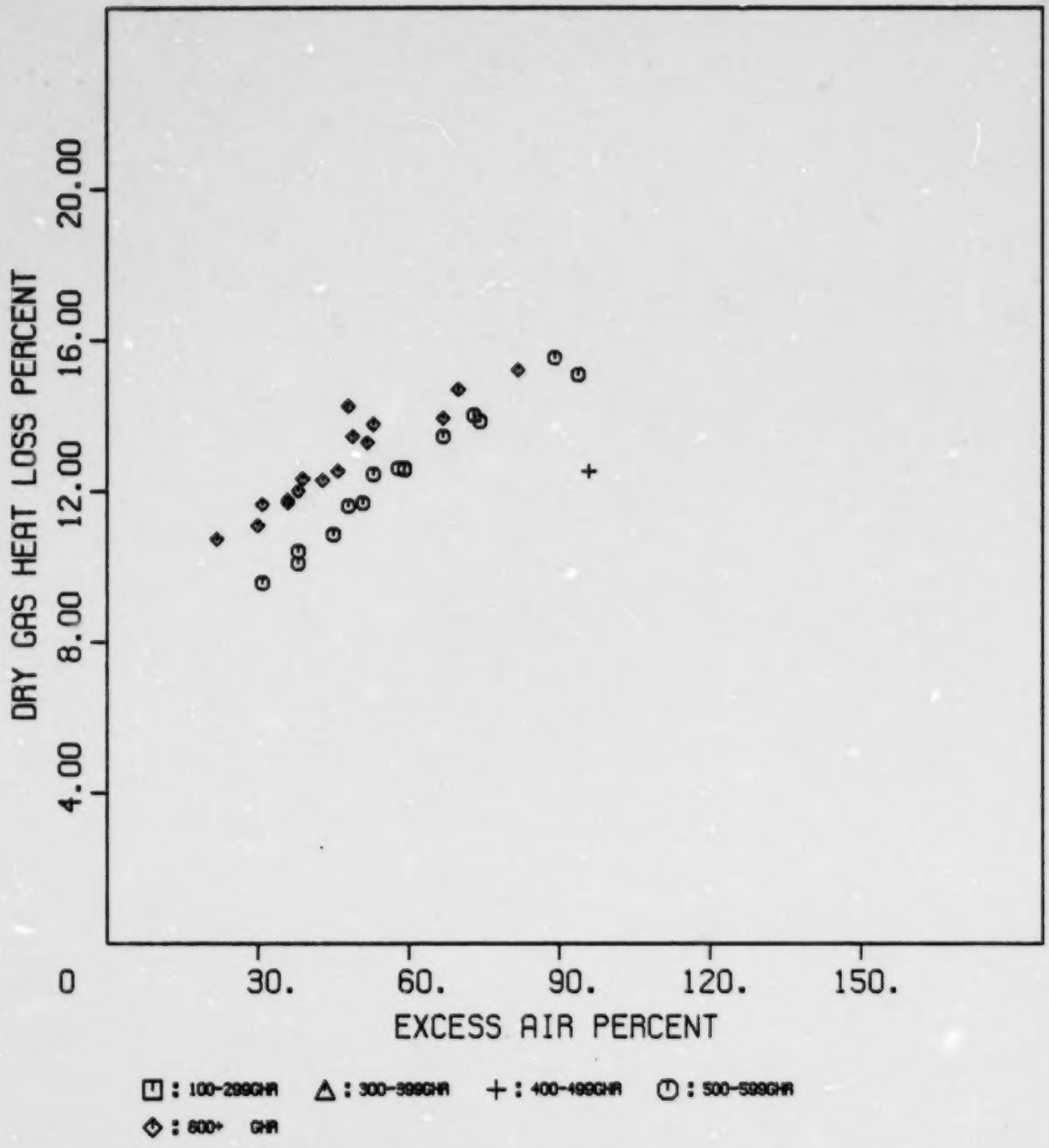


FIG. SITE G
DRY GAS HEAT LOSS VS. EXCESS AIR

KVB4-15900-554

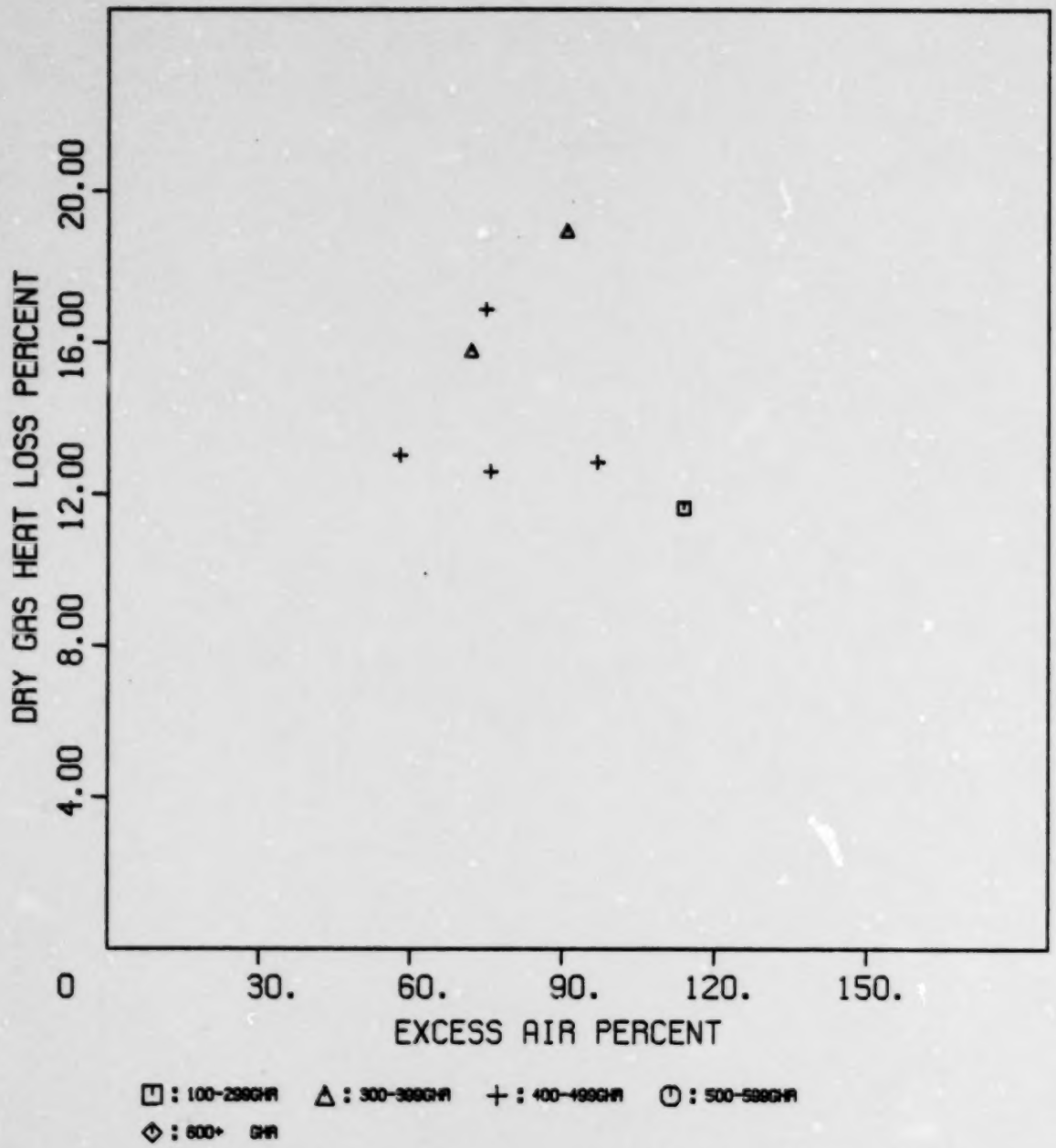


FIG. SITE H
DRY GAS HEAT LOSS VS. EXCESS AIR

KVB4-15900-554

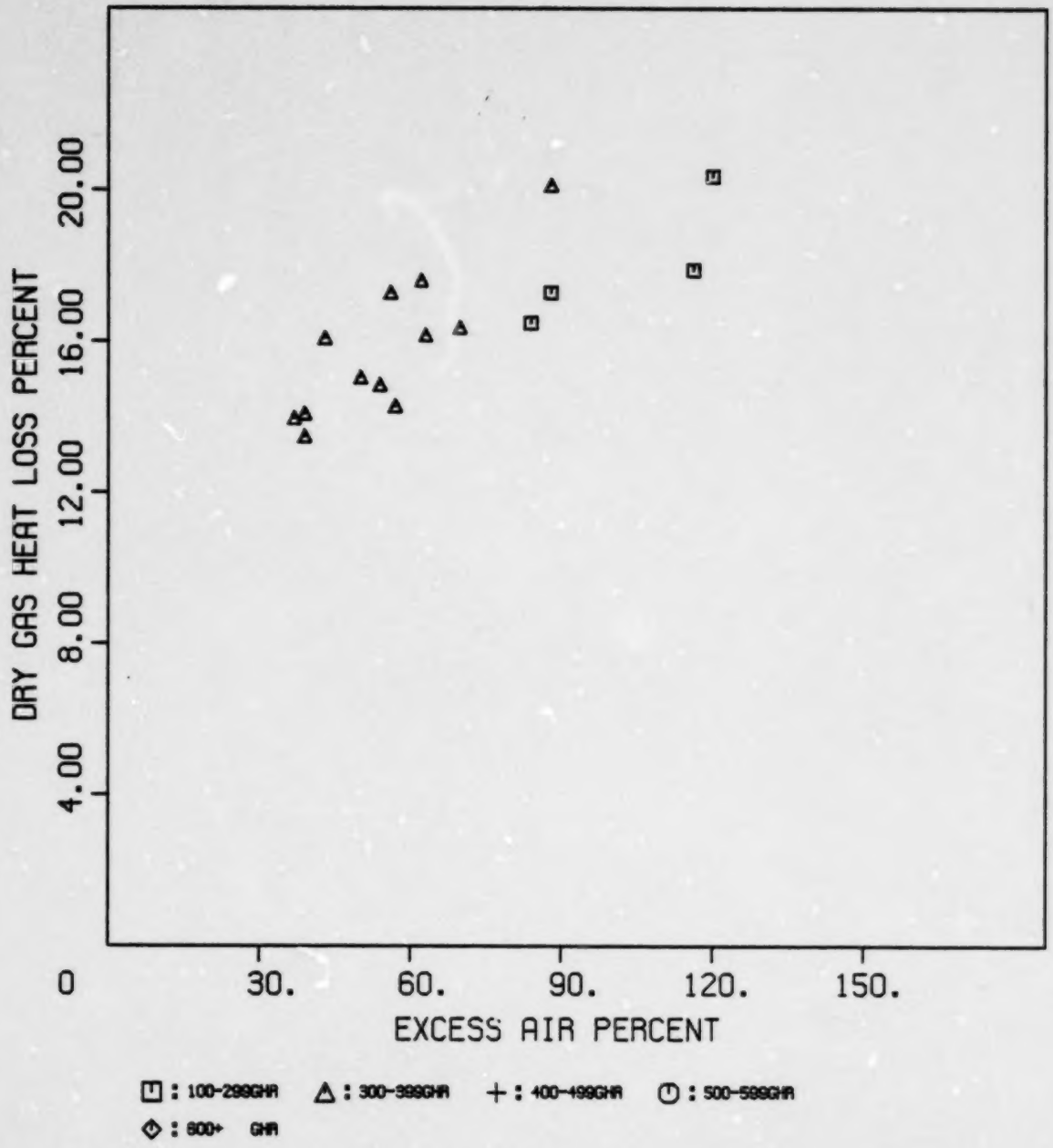


FIG. SITE I
DRY GAS HEAT LOSS VS. EXCESS AIR

KYB4-15800-554

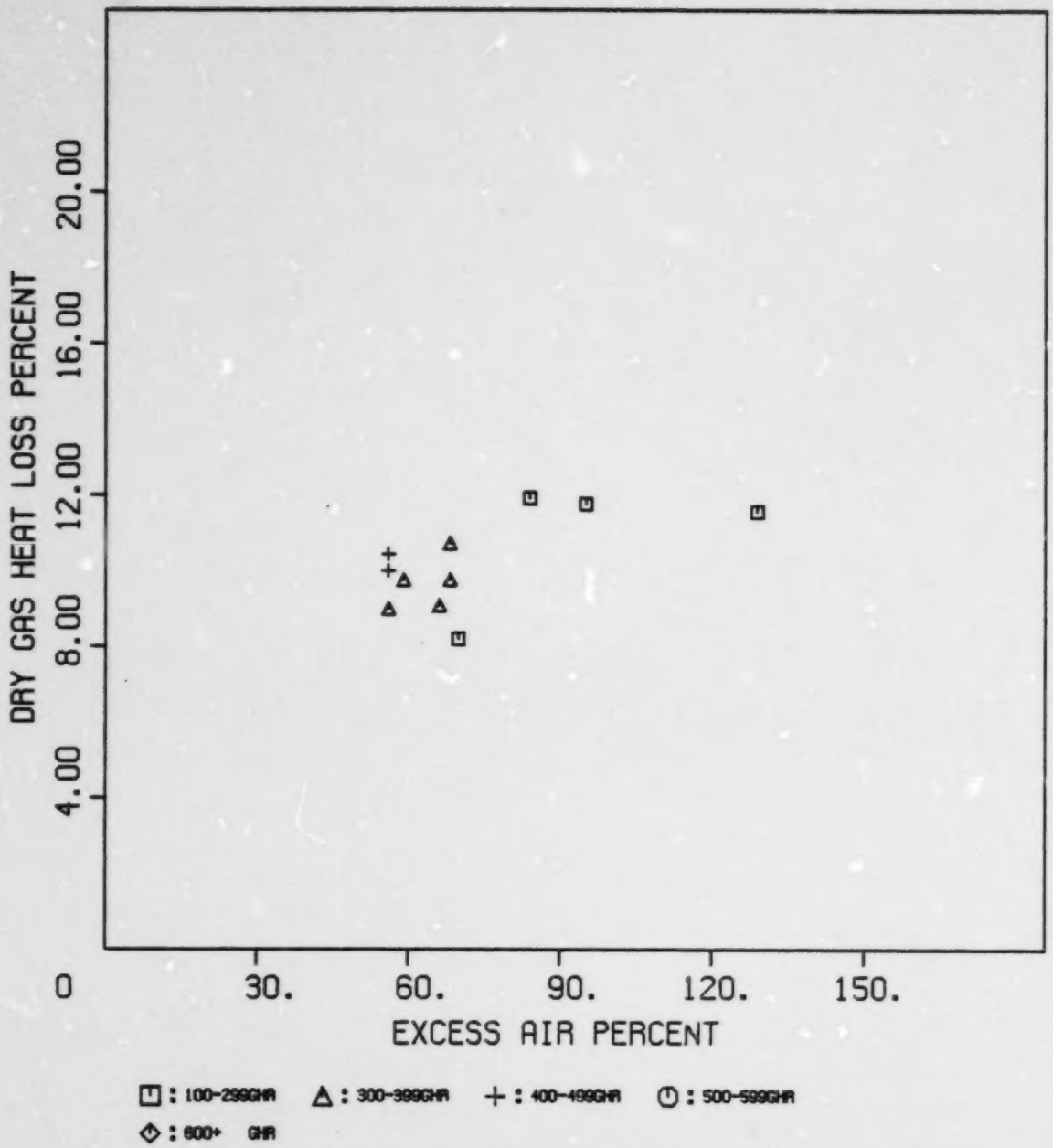


FIG. SITE J
DRY GAS HEAT LOSS VS. EXCESS AIR

KYB4-15900-554

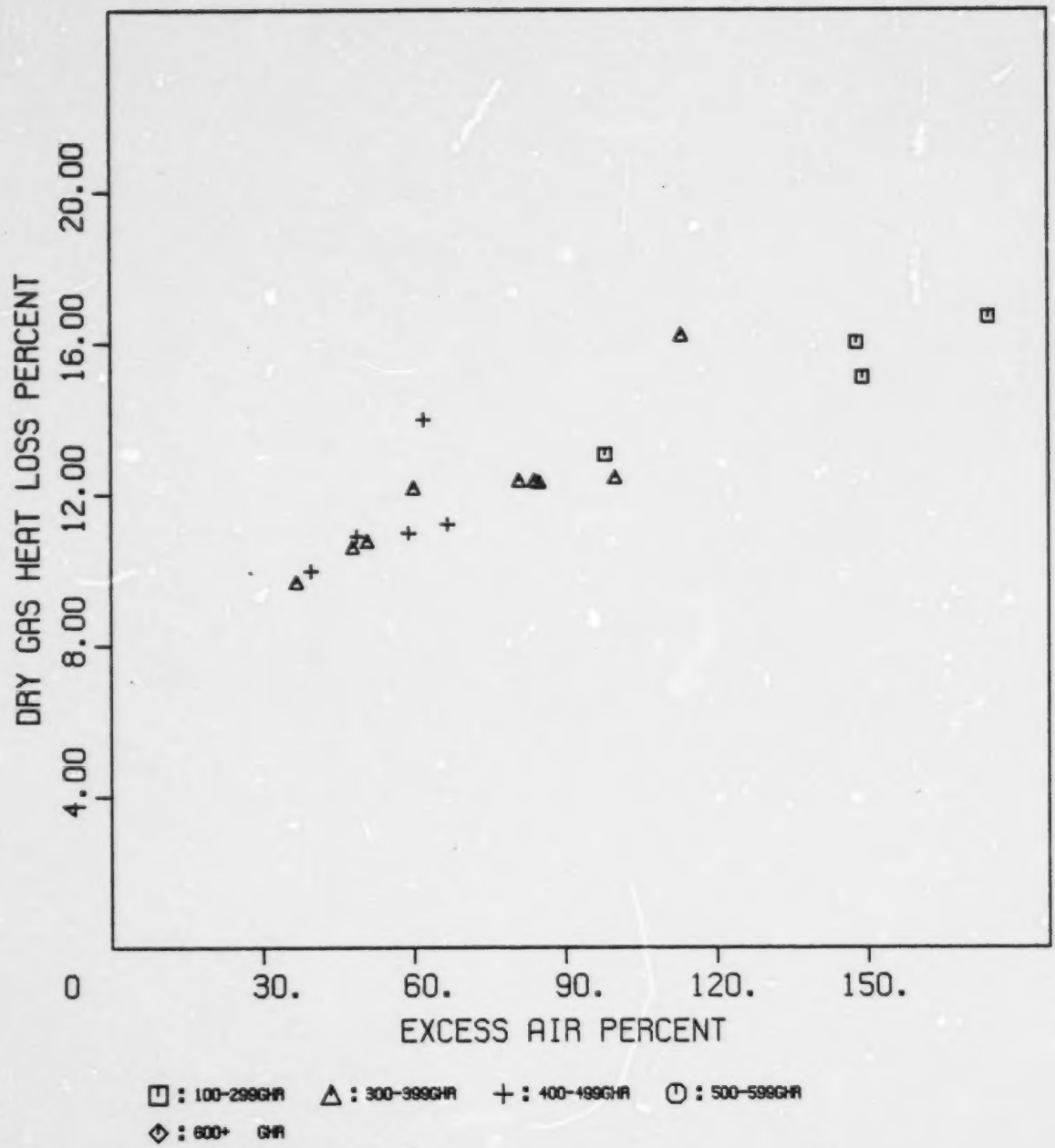


FIG. SITE K
DRY GAS HEAT LOSS VS. EXCESS AIR

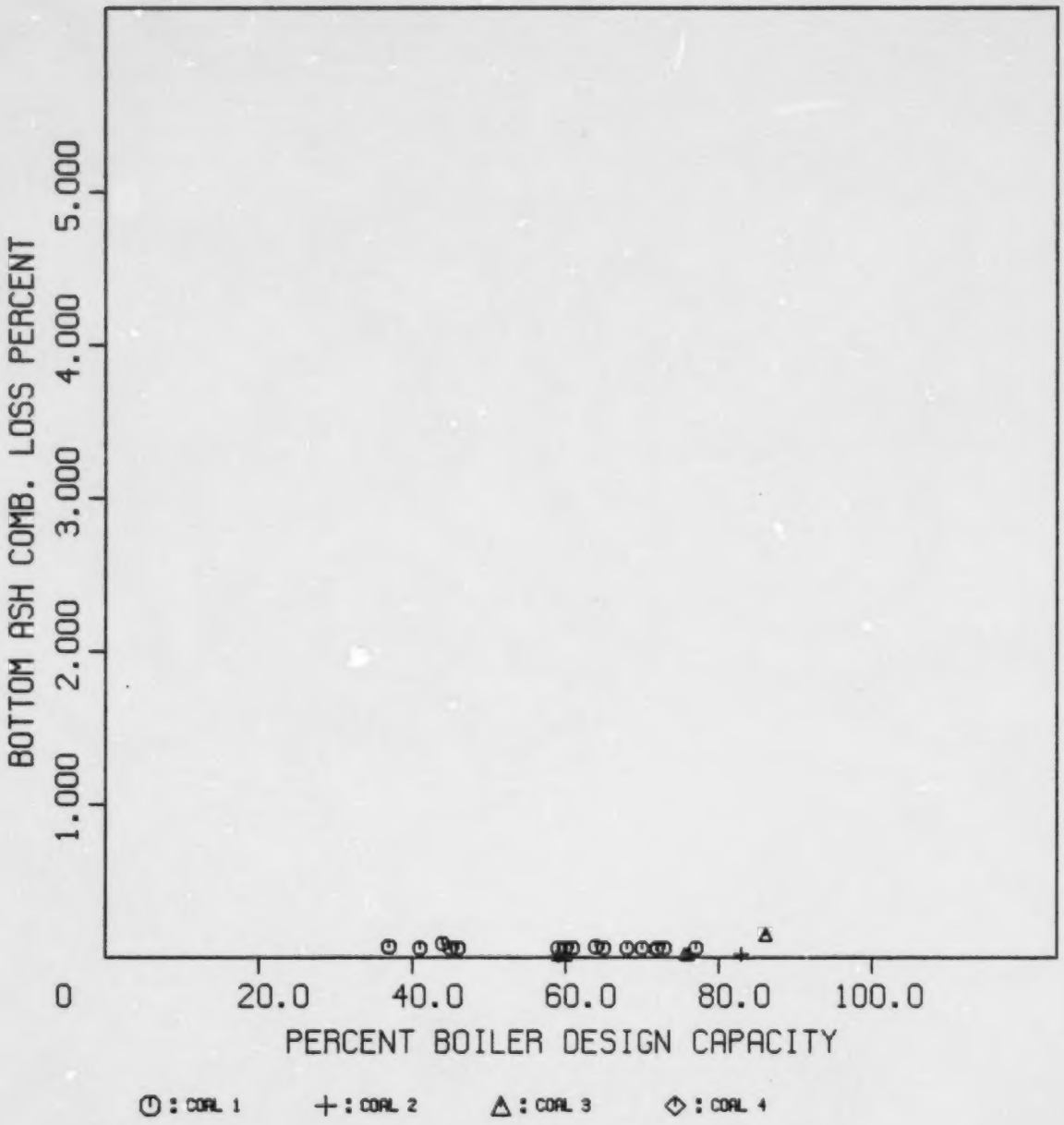


FIG. SITE A
BOTTOM ASH COMB. LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

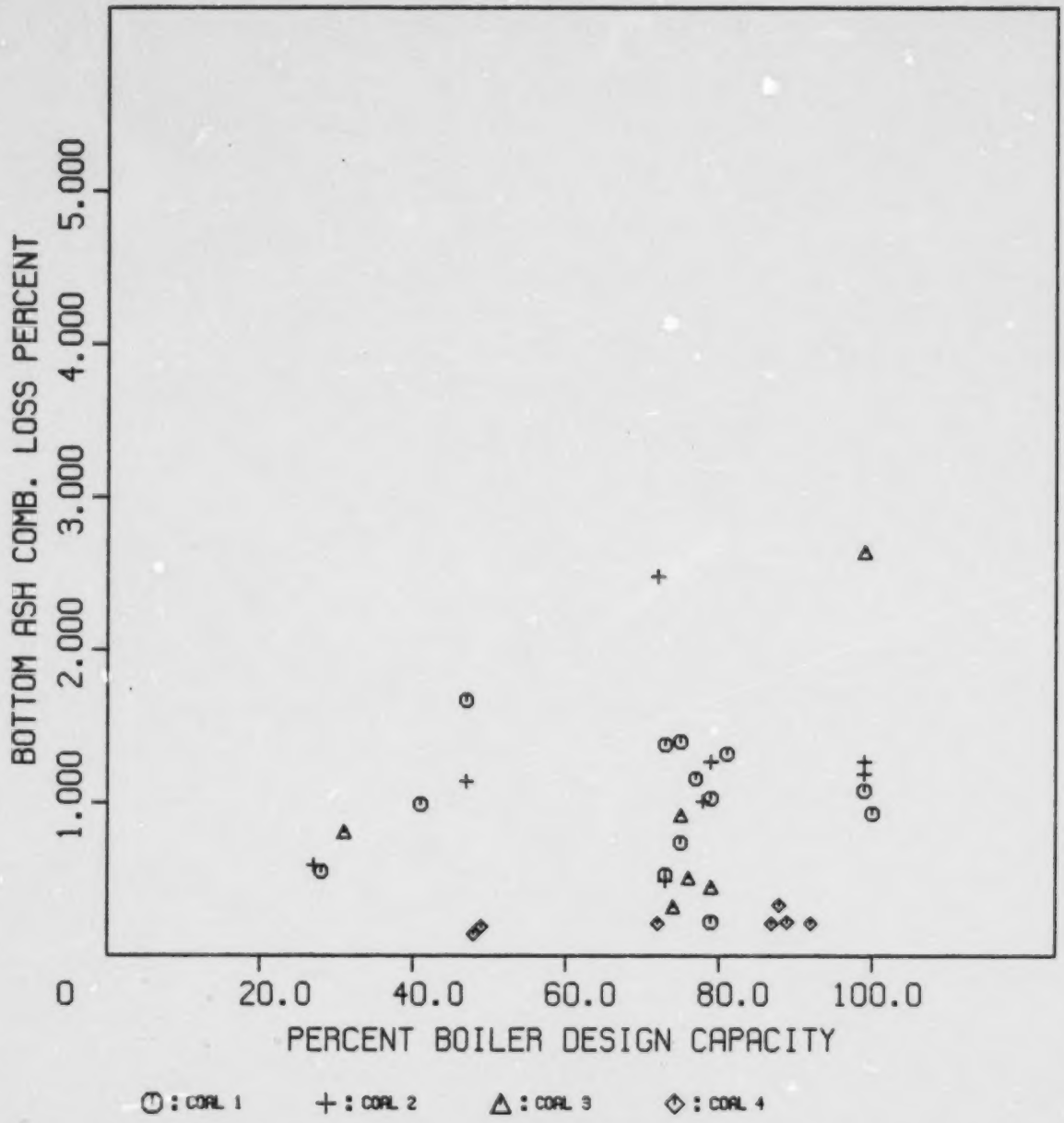


FIG. SITE B
BOTTOM ASH COMB. LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

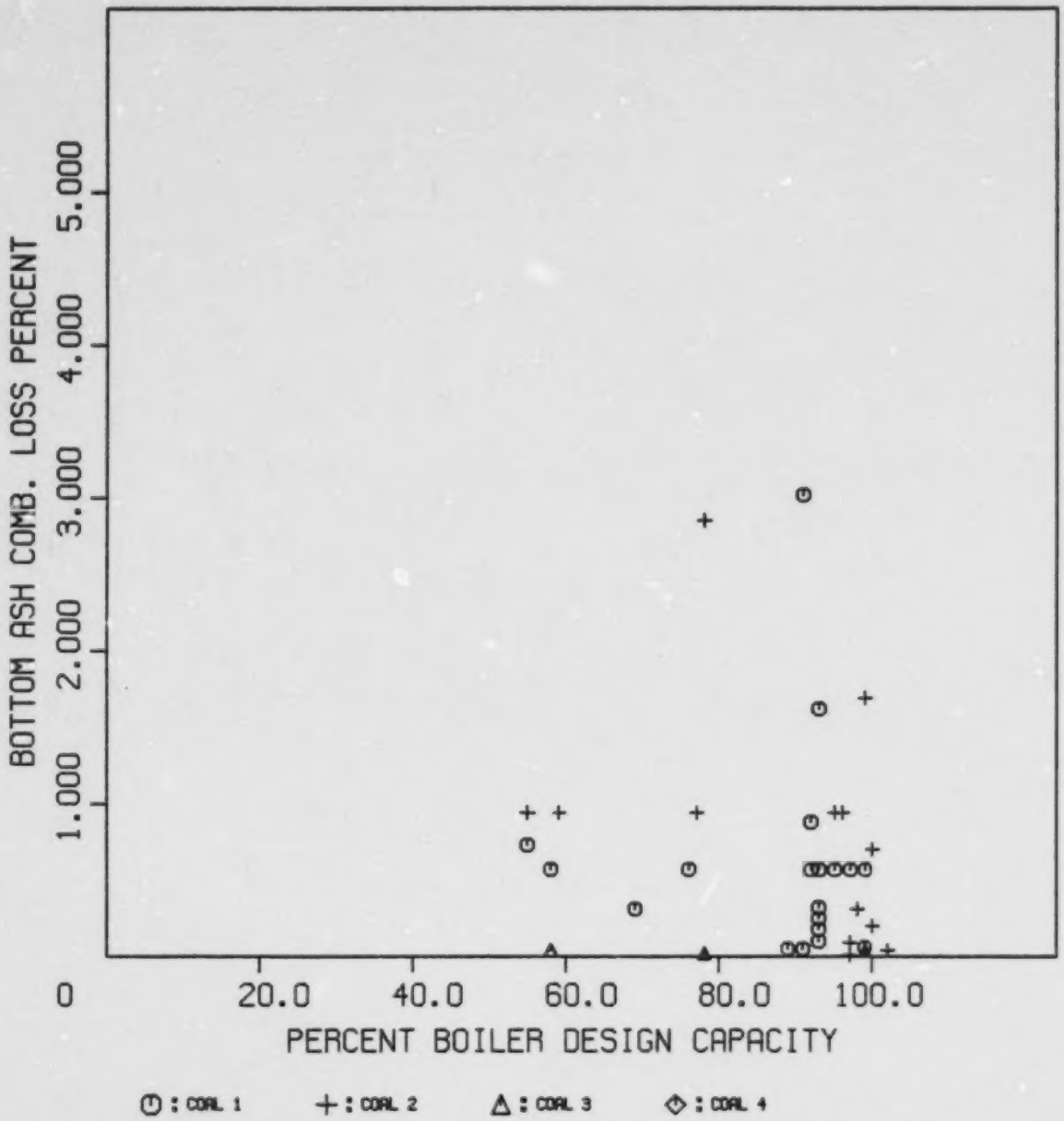


FIG. SITE C
BOTTOM ASH COMB. LOSS VS. PERCENT BOILER DESIGN CAPACITY

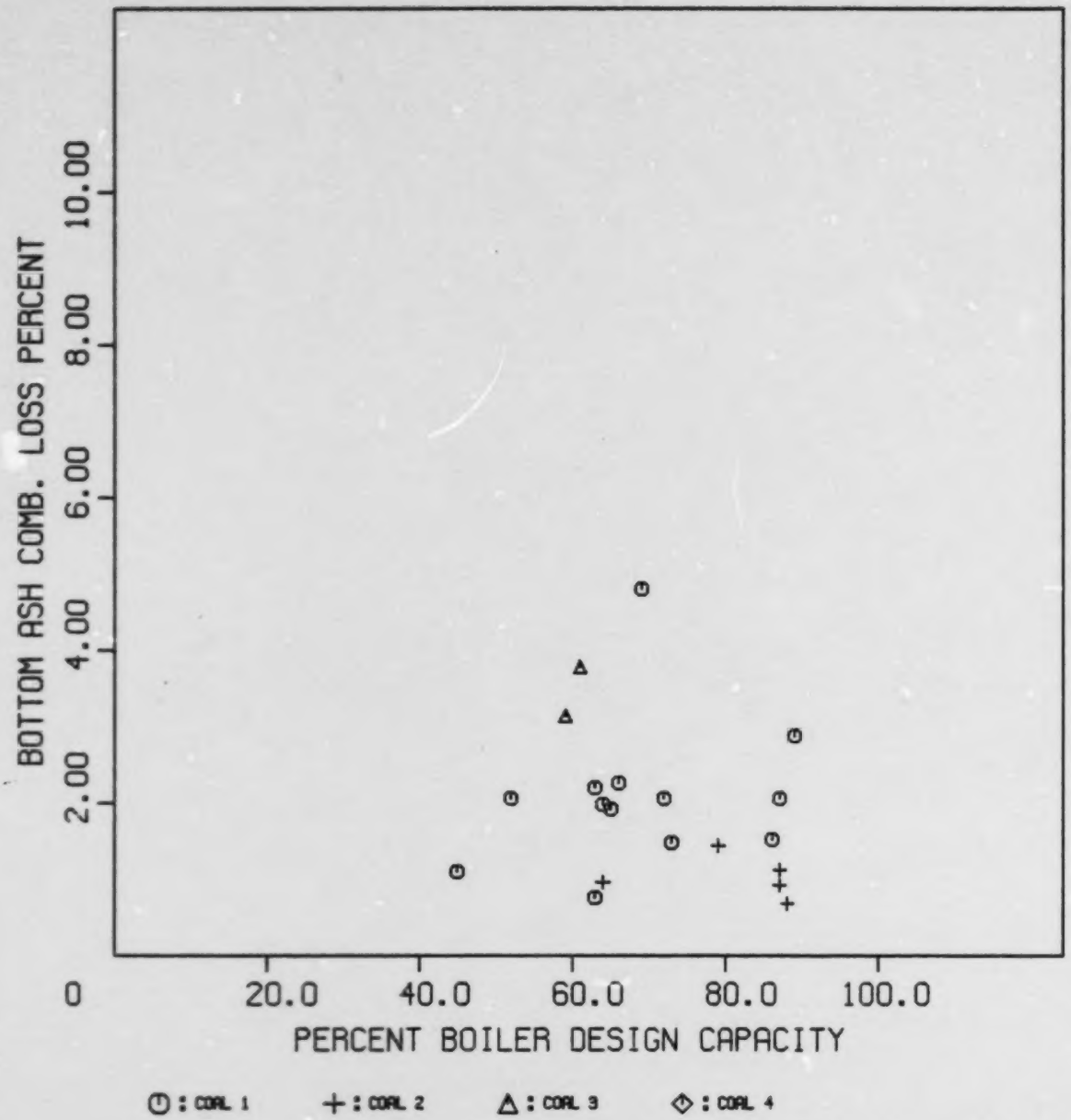


FIG. SITE D
BOTTOM ASH COMB. LOSS VS. PERCENT BOILER DESIGN CAPACITY

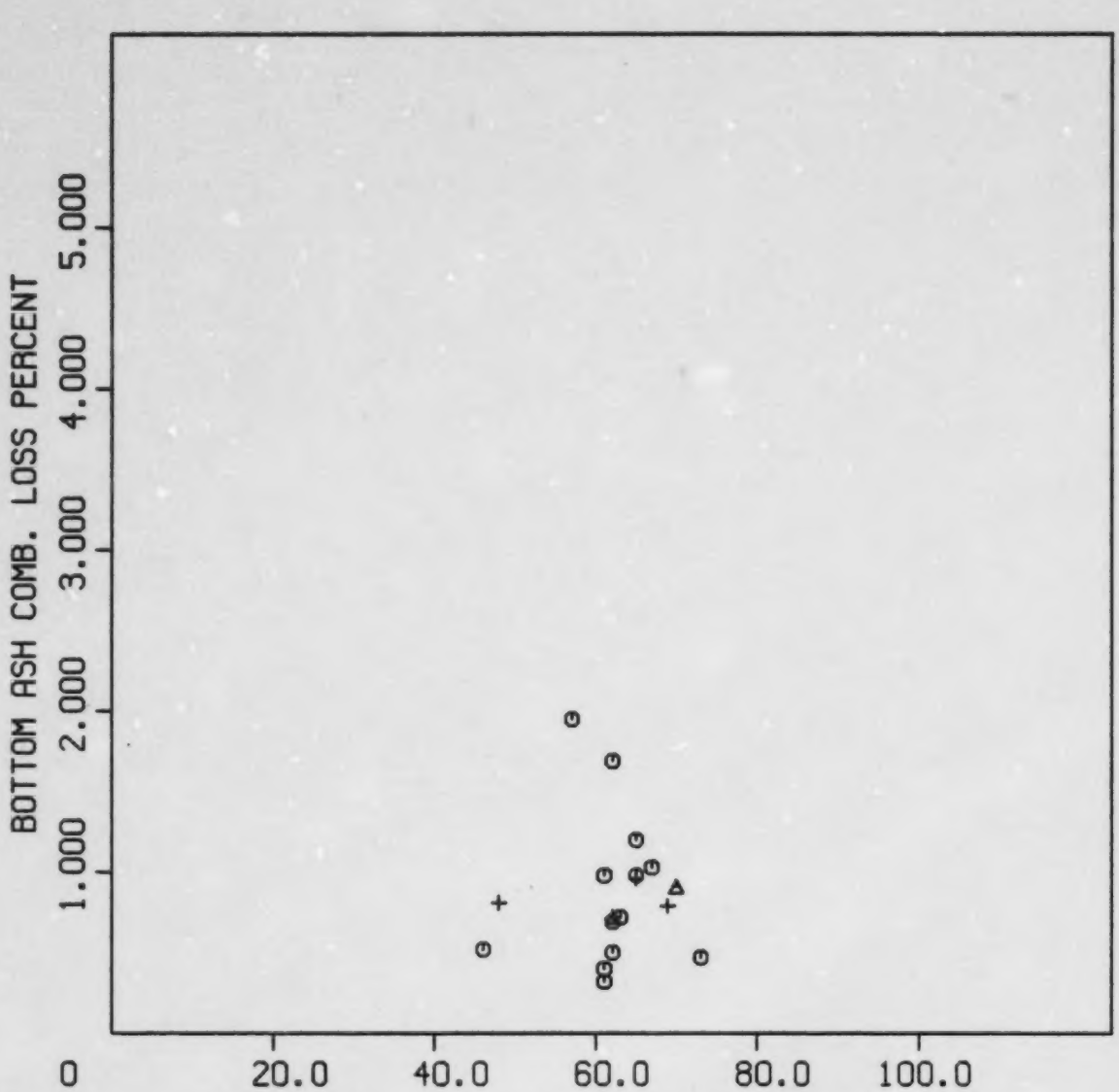


FIG. SITE E
BOTTOM ASH COMB. LOSS VS. PERCENT BOILER DESIGN CAPACIT

KVB4-15900-554

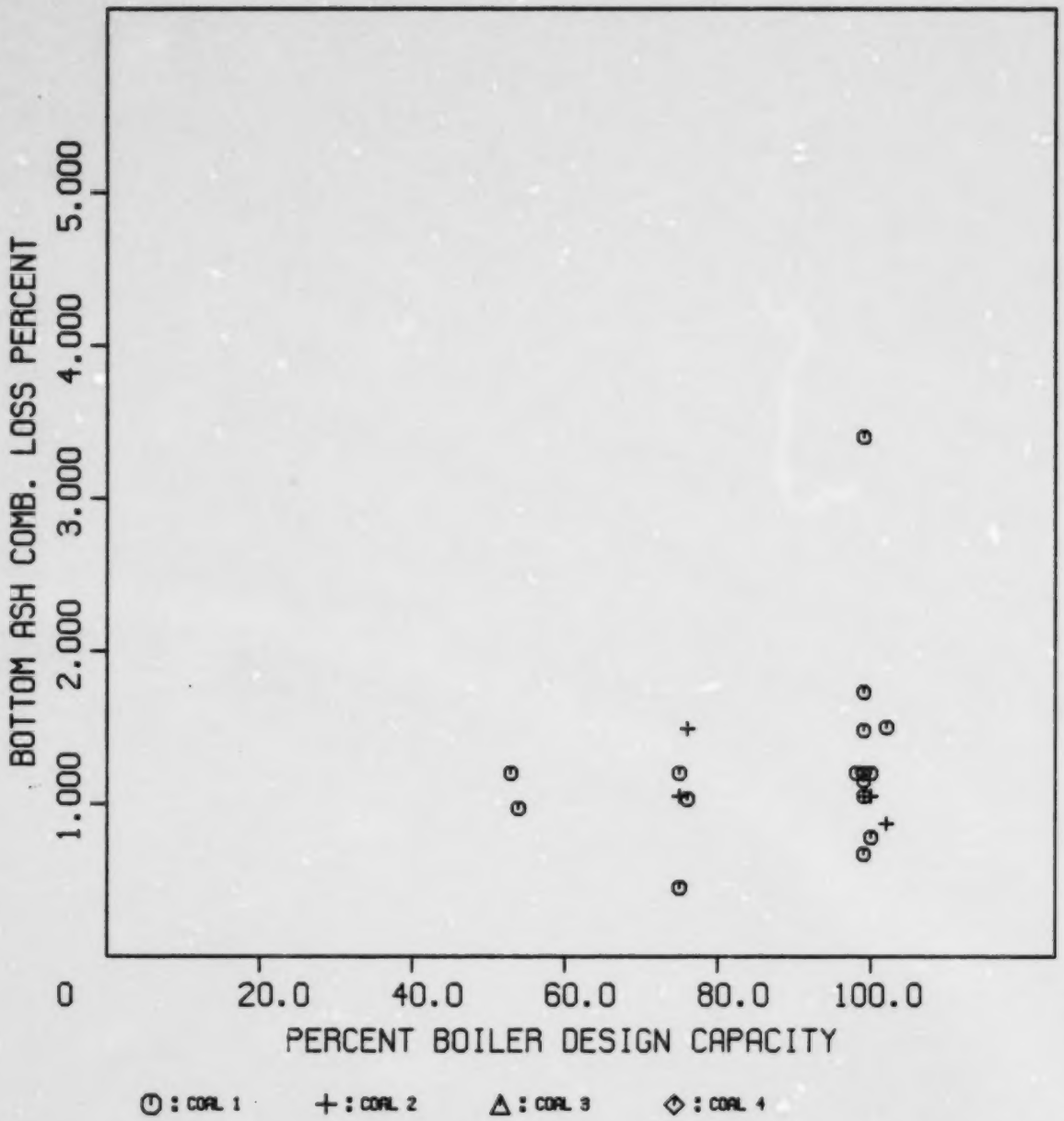


FIG. SITE F
BOTTOM ASH COMB. LOSS VS. PERCENT BOILER DESIGN CAPACITY

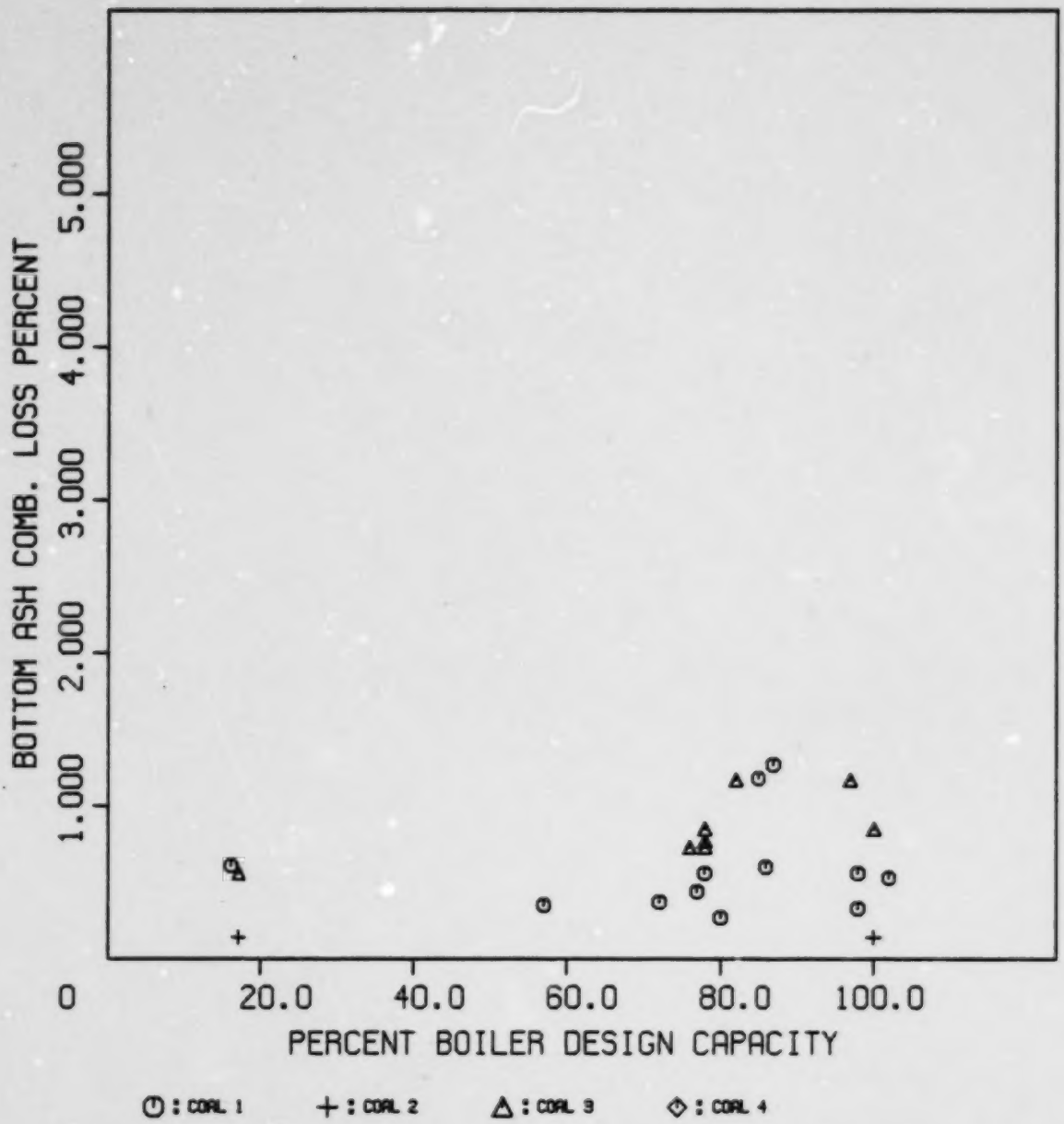


FIG. SITE G
BOTTOM ASH COMB. LOSS VS. PERCENT BOILER DESIGN CAPACITY

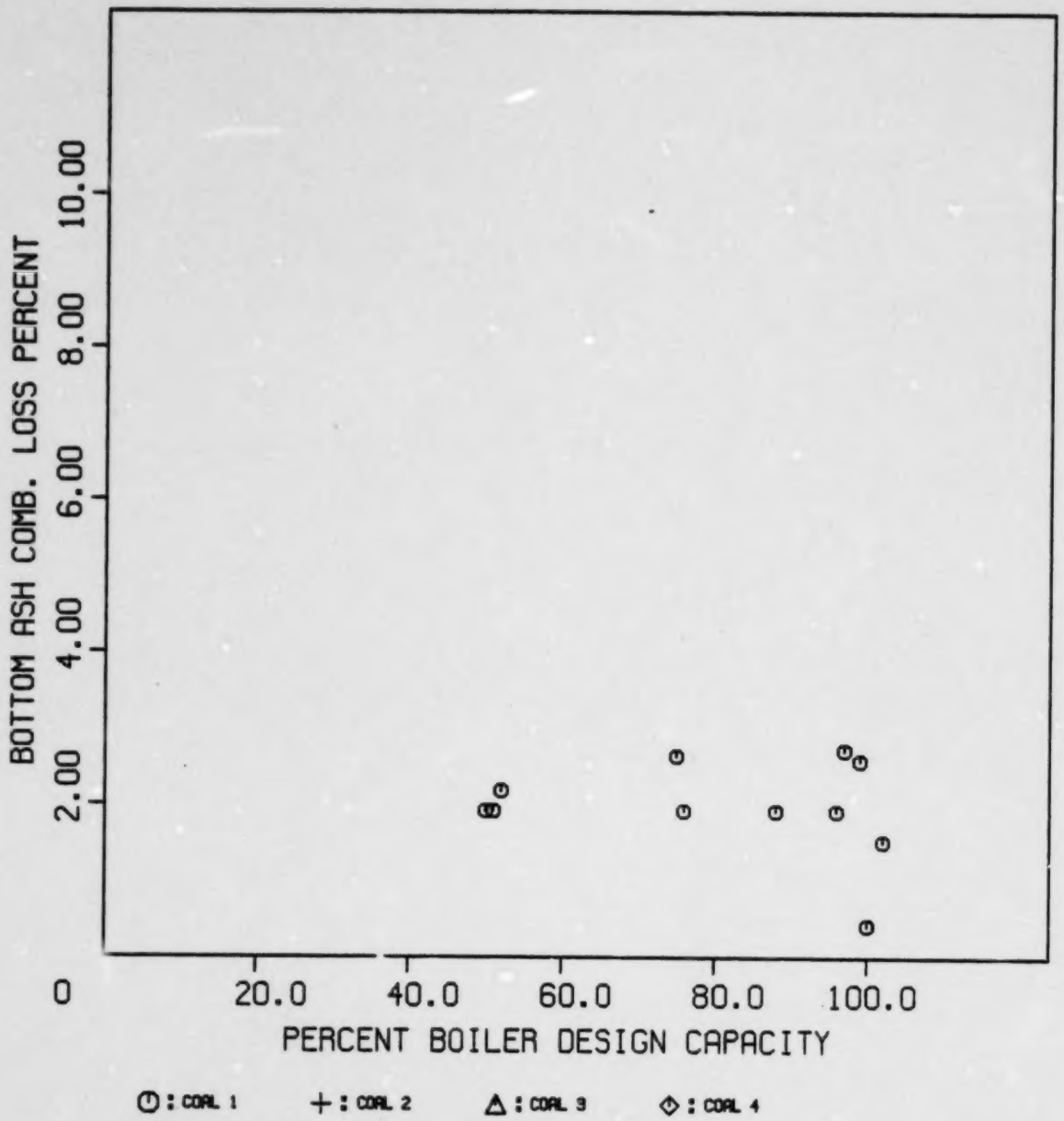


FIG. SITE H

BOTTOM ASH COMB. LOSS VS. PERCENT BOILER DESIGN CAPACITY

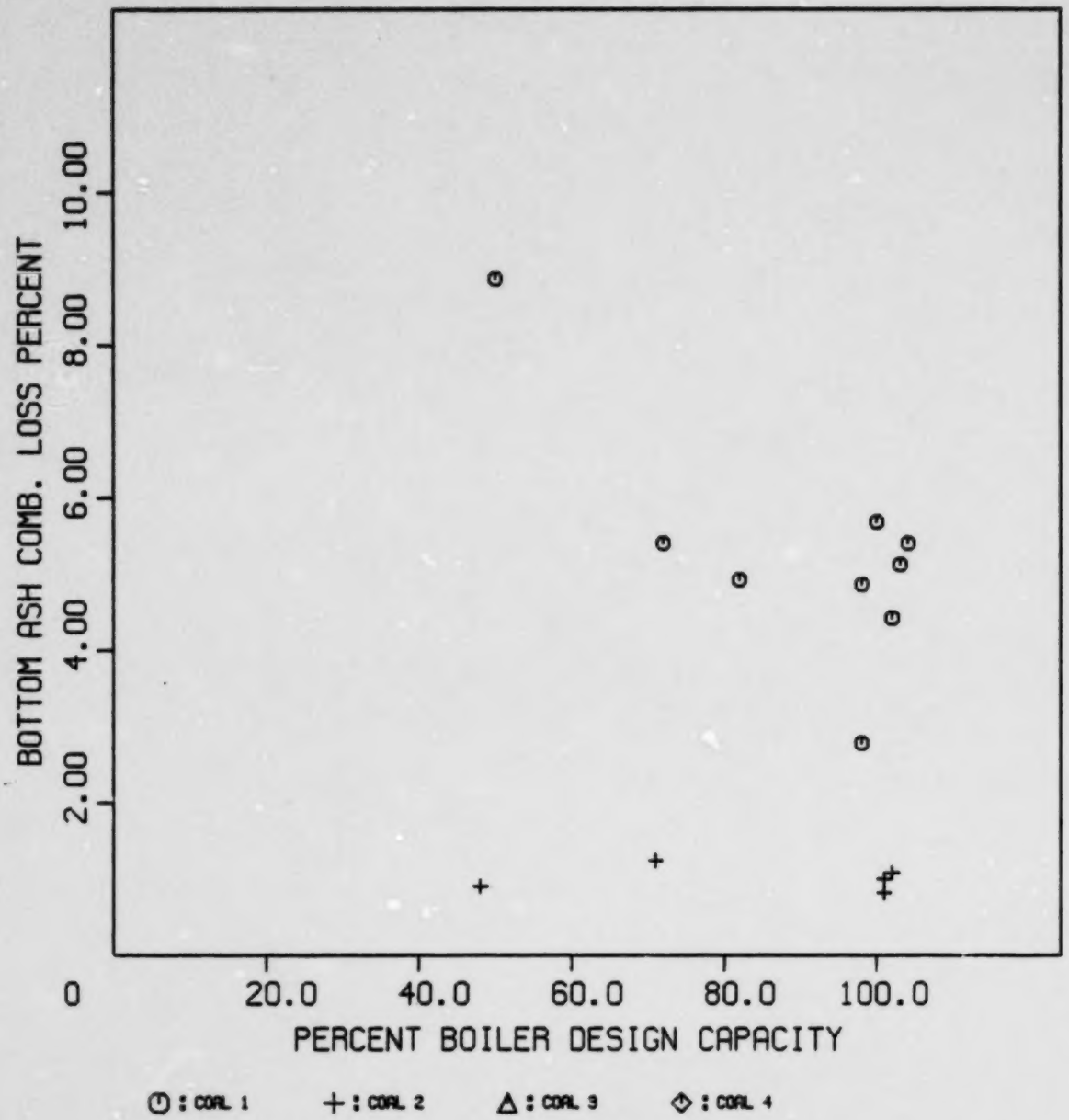


FIG. SITE I
BOTTOM ASH COMB. LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15800-554

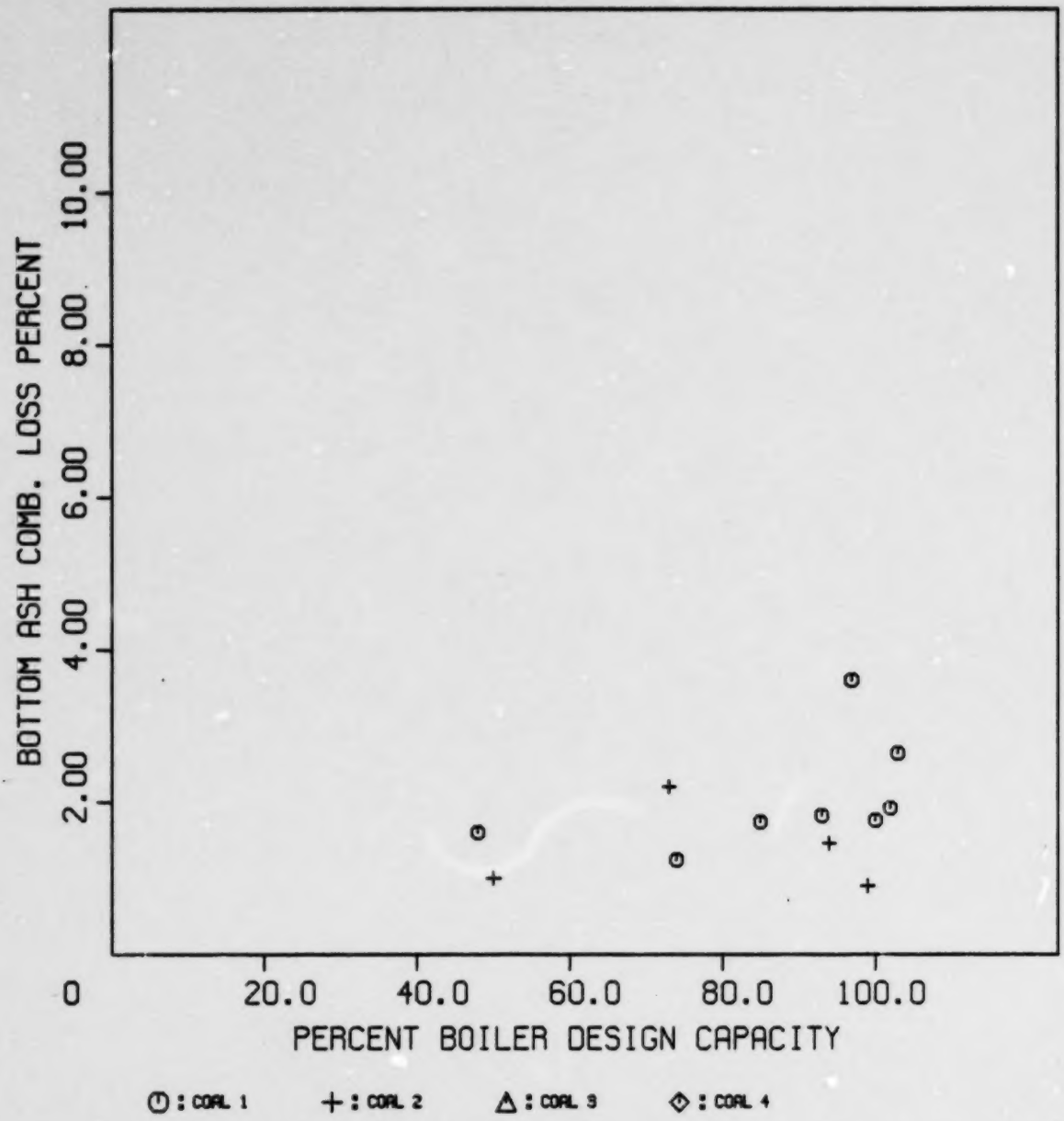


FIG. SITE J
BOTTOM ASH COMB. LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

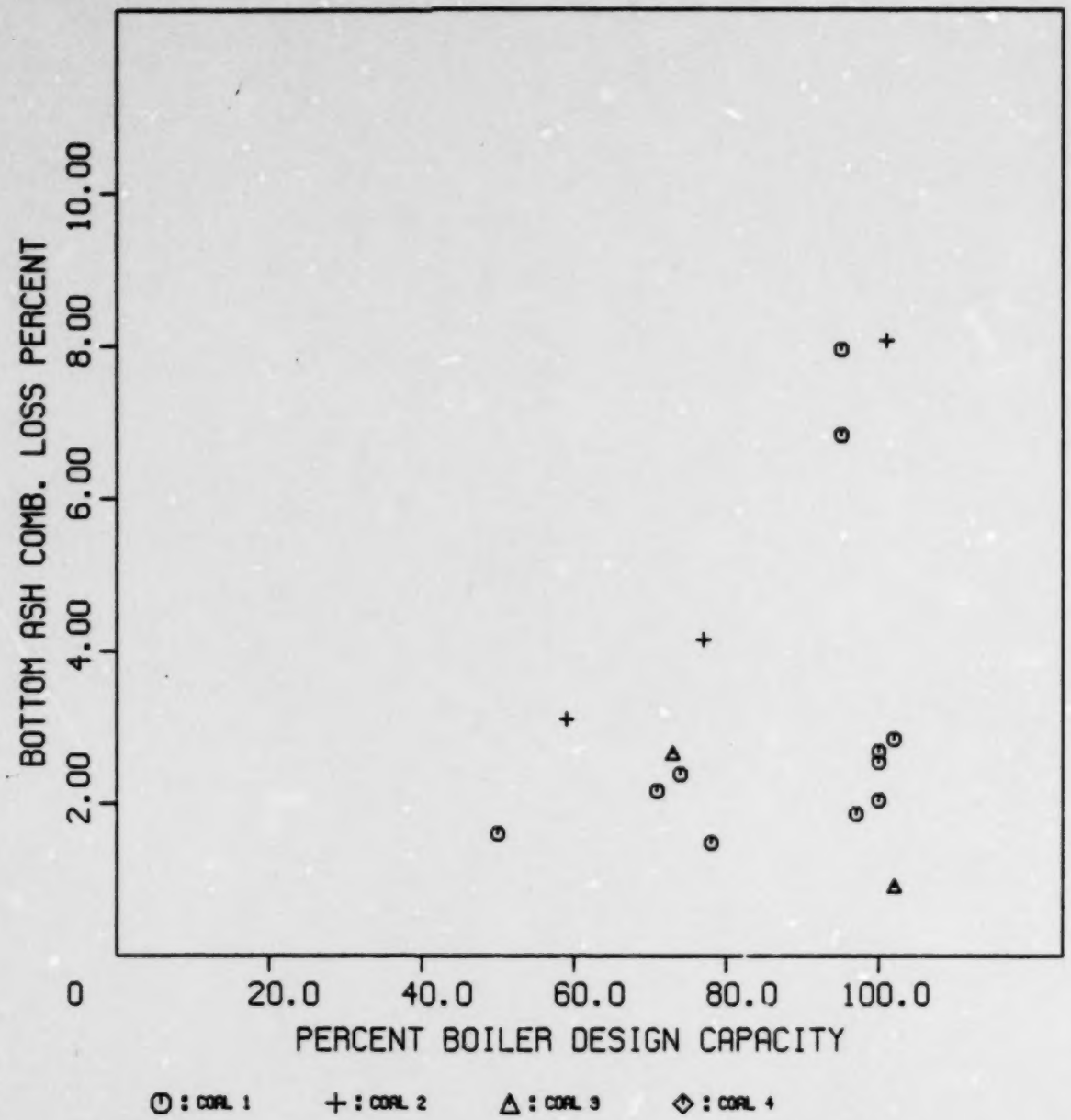


FIG. SITE K
BOTTOM ASH COMB. LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

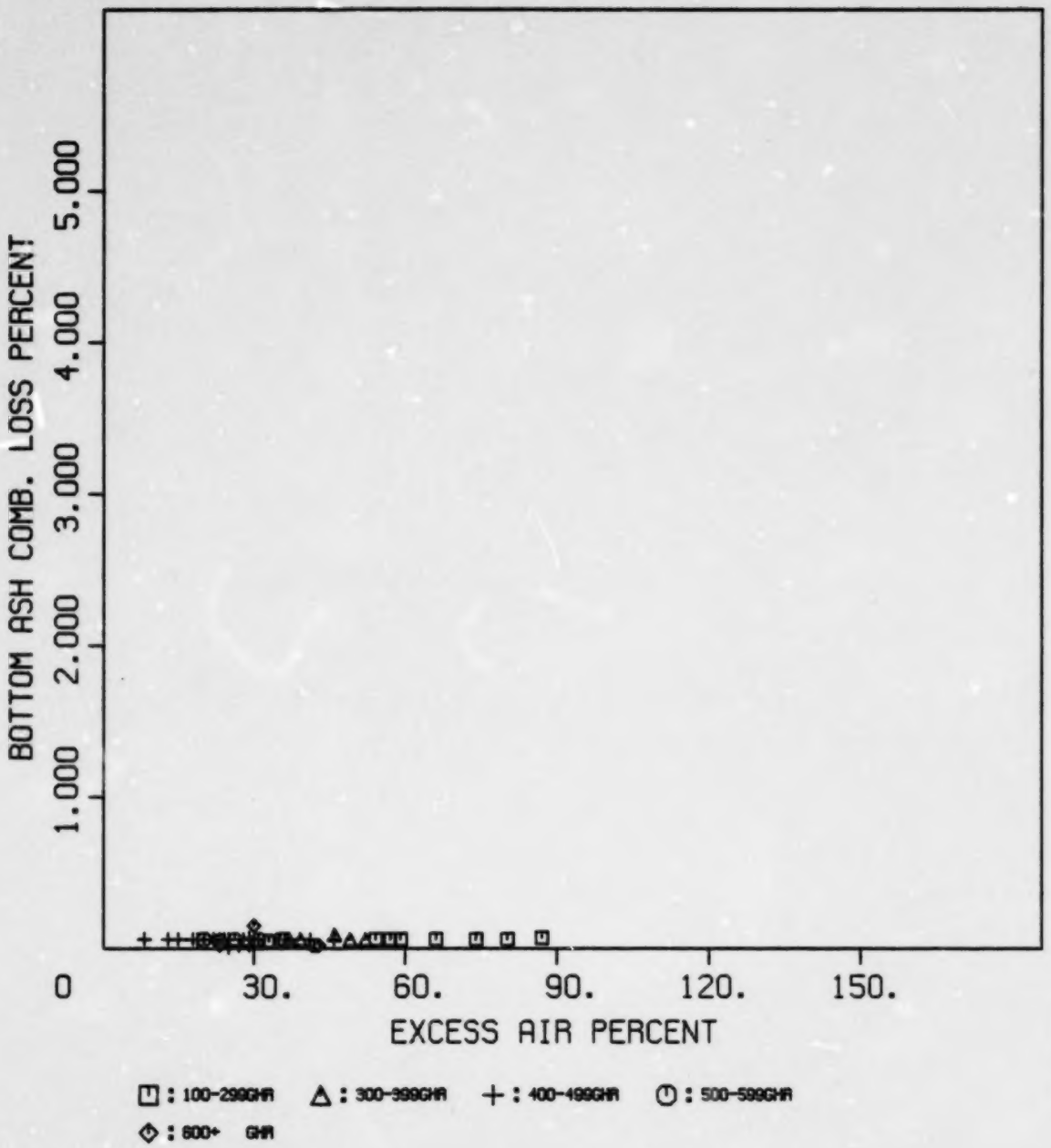


FIG. SITE A
BOTTOM ASH COMB. LOSS VS. EXCESS AIR

KYB4-15900-554

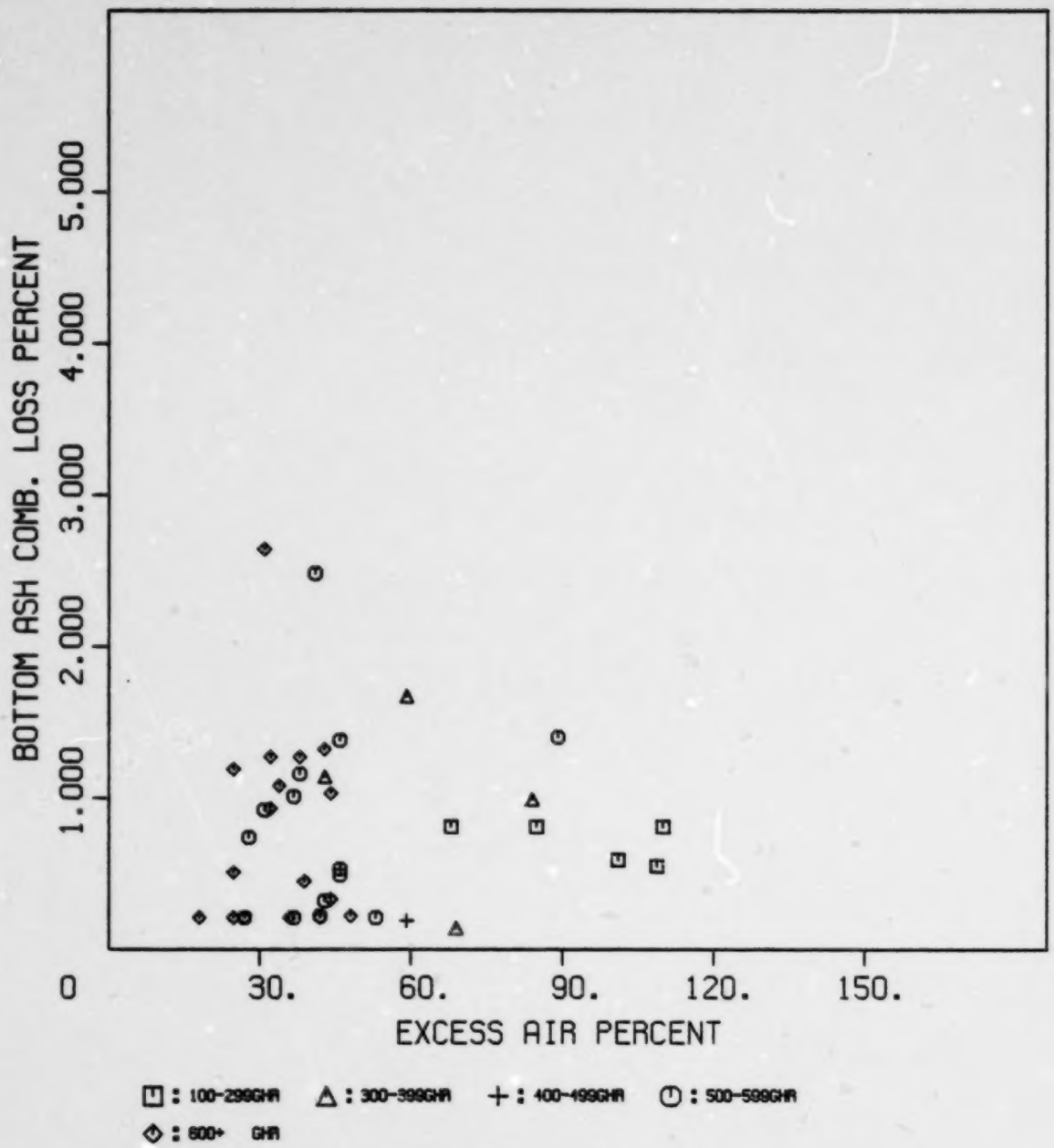


FIG. SITE B
BOTTOM ASH COMB. LOSS VS. EXCESS AIR

KVB4-15900-554

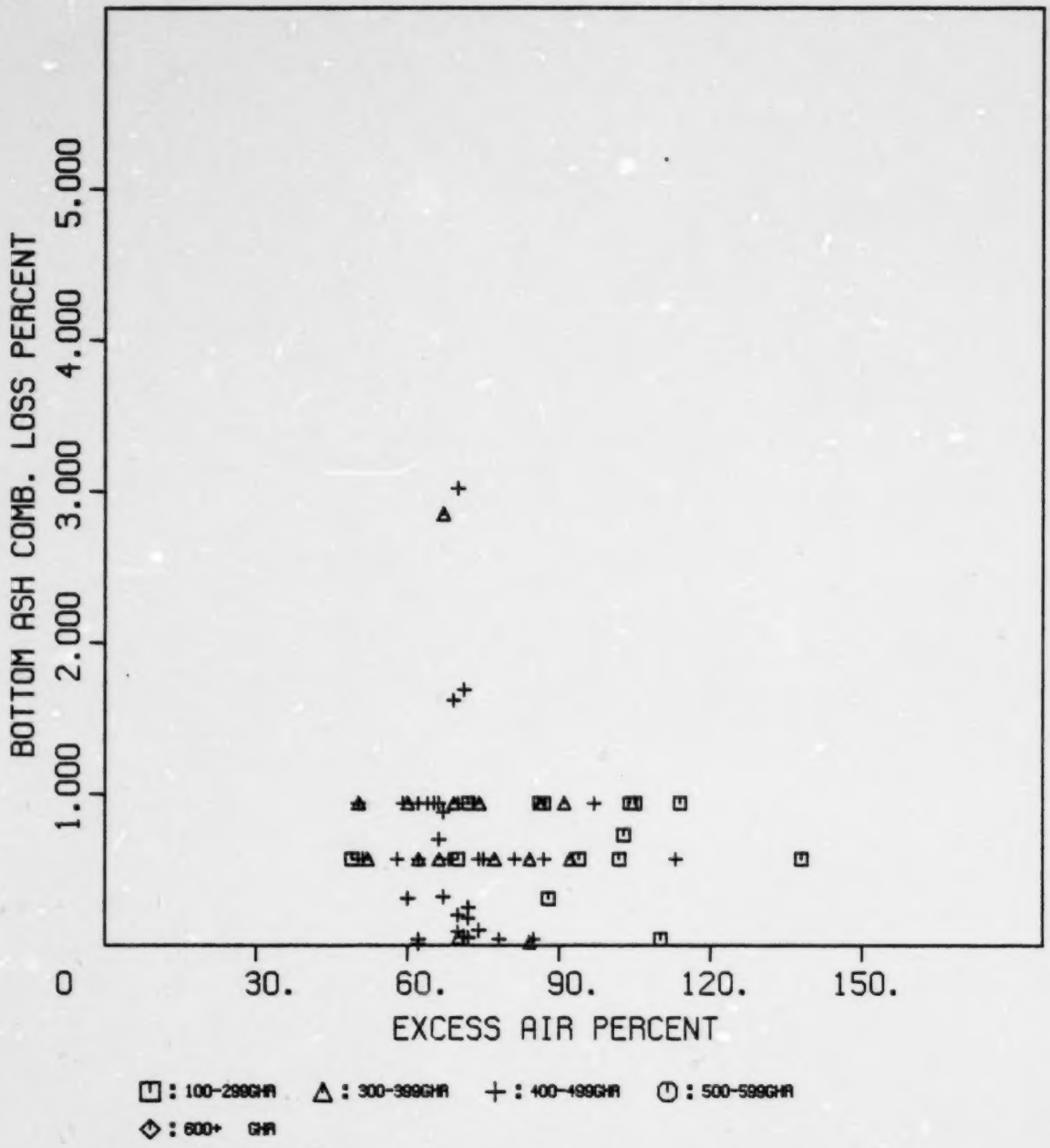


FIG. SITE C
BOTTOM ASH COMB. LOSS VS. EXCESS AIR

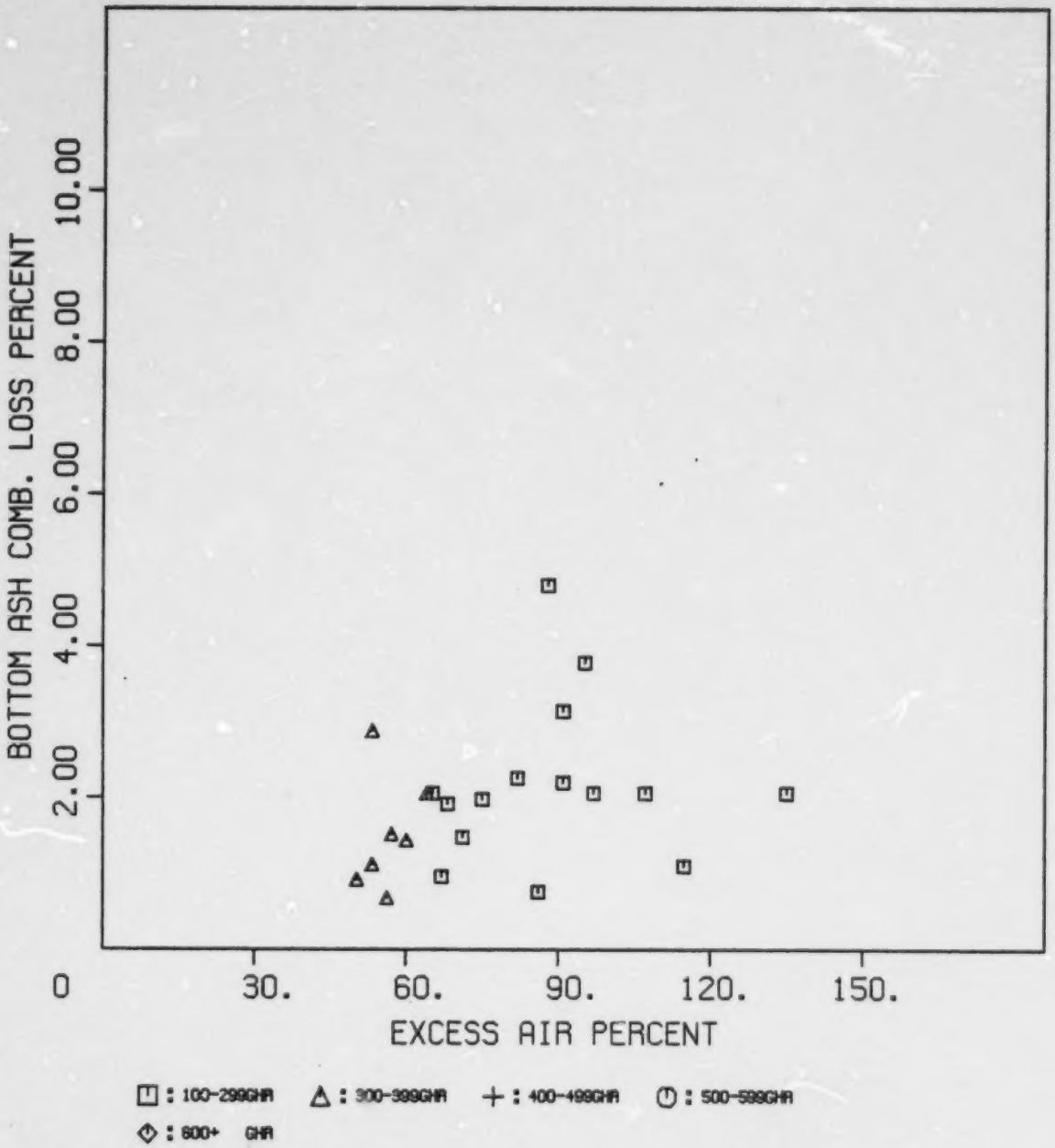


FIG. SITE D
BOTTOM ASH COMB. LOSS VS. EXCESS AIR

KVB4-15900-554

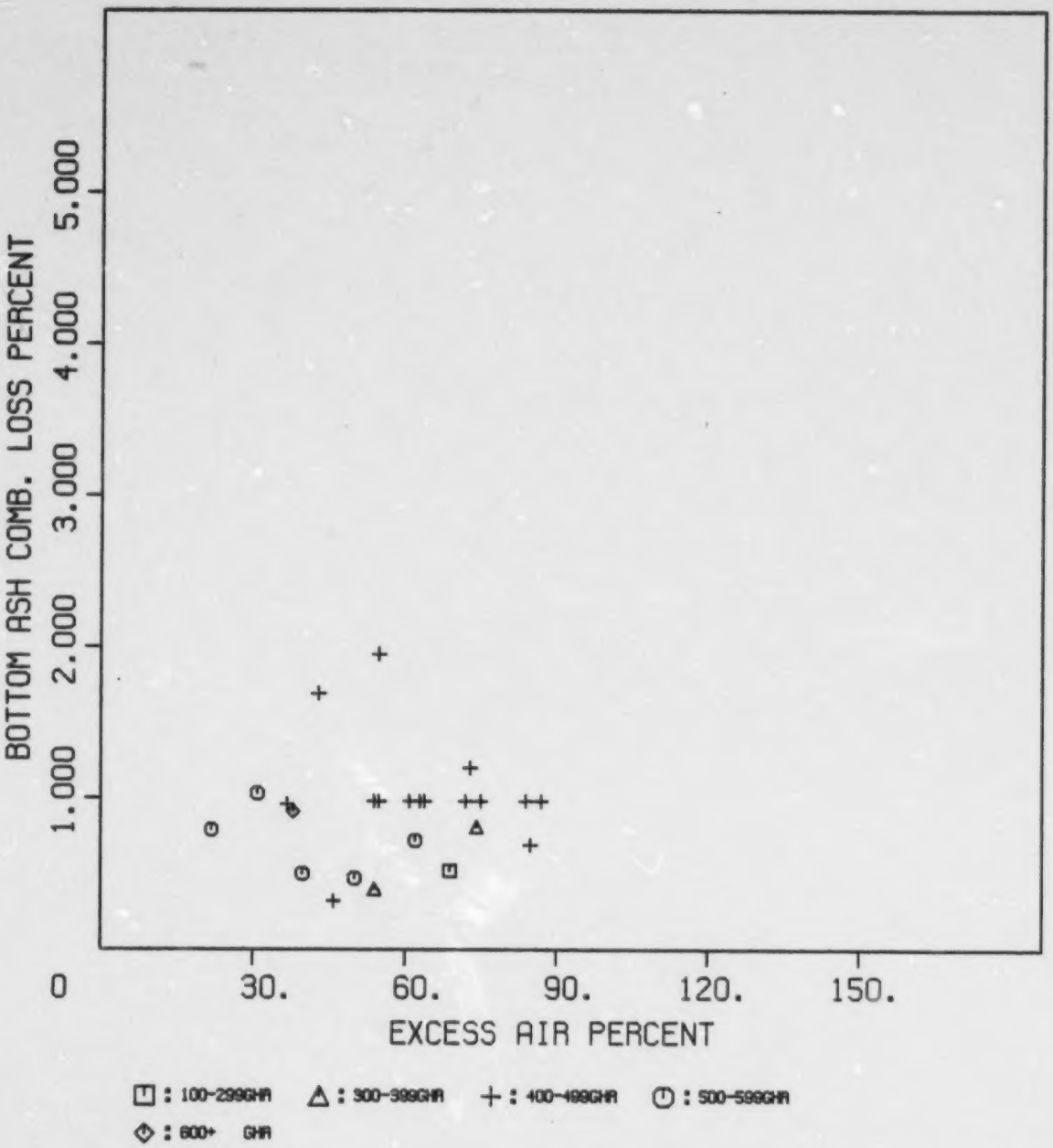


FIG. SITE E
BOTTOM ASH COMB. LOSS VS. EXCESS AIR

KVB4-15900-554

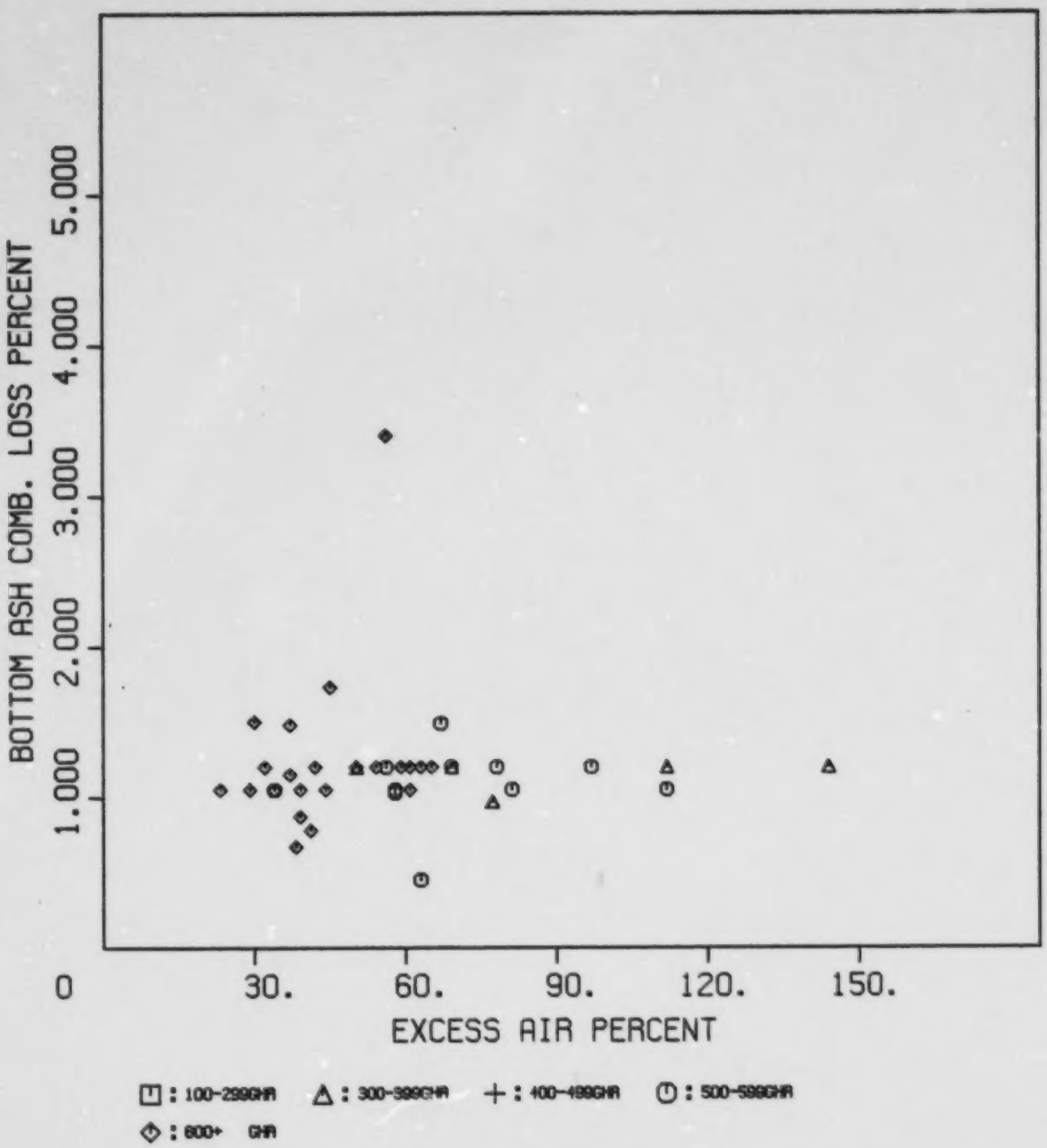


FIG. SITE F
BOTTOM ASH COMB. LOSS VS. EXCESS AIR

KVB4-15800-554

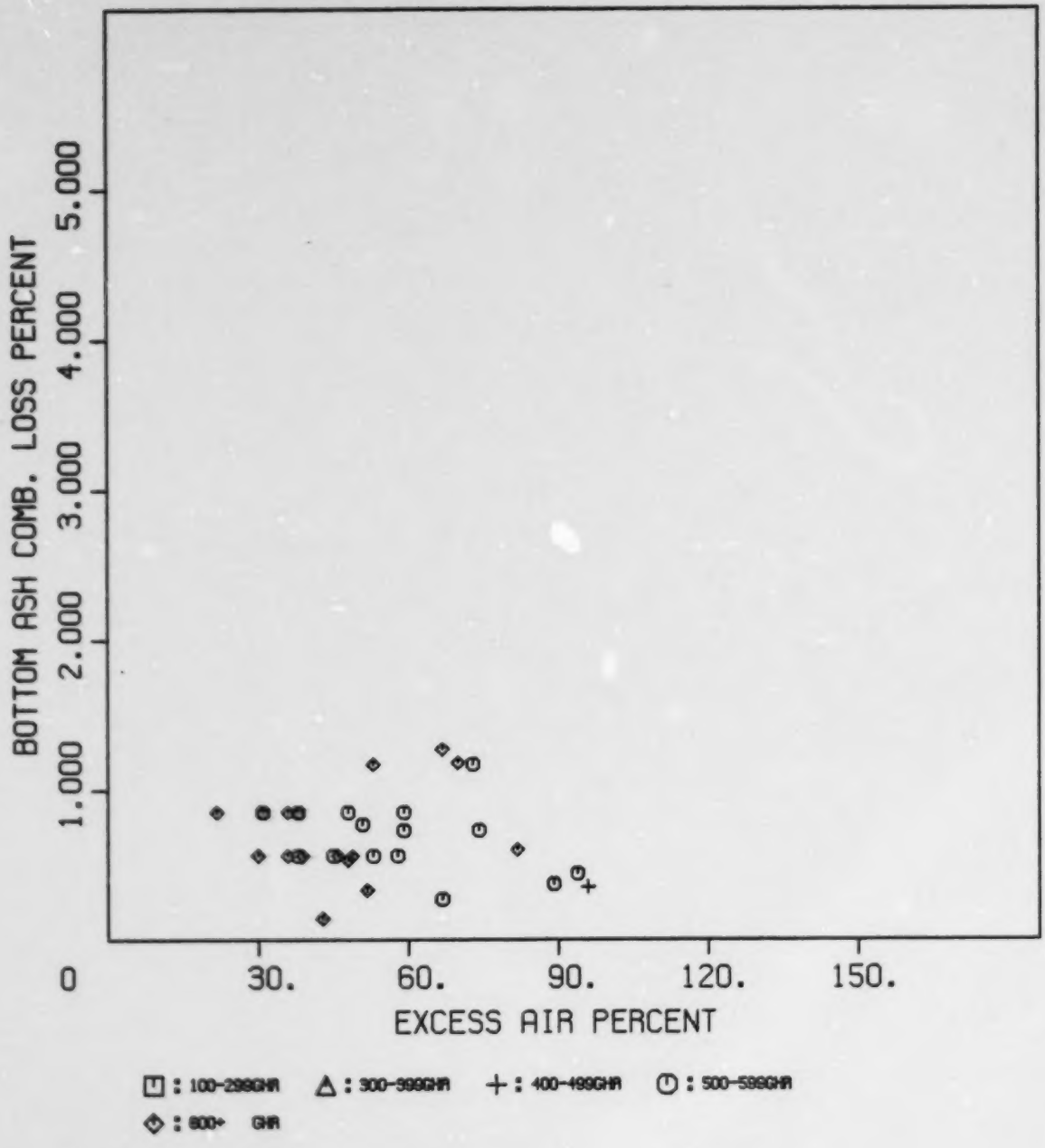


FIG. SITE G
BOTTOM ASH COMB. LOSS VS. EXCESS AIR

KVB4-15800-554

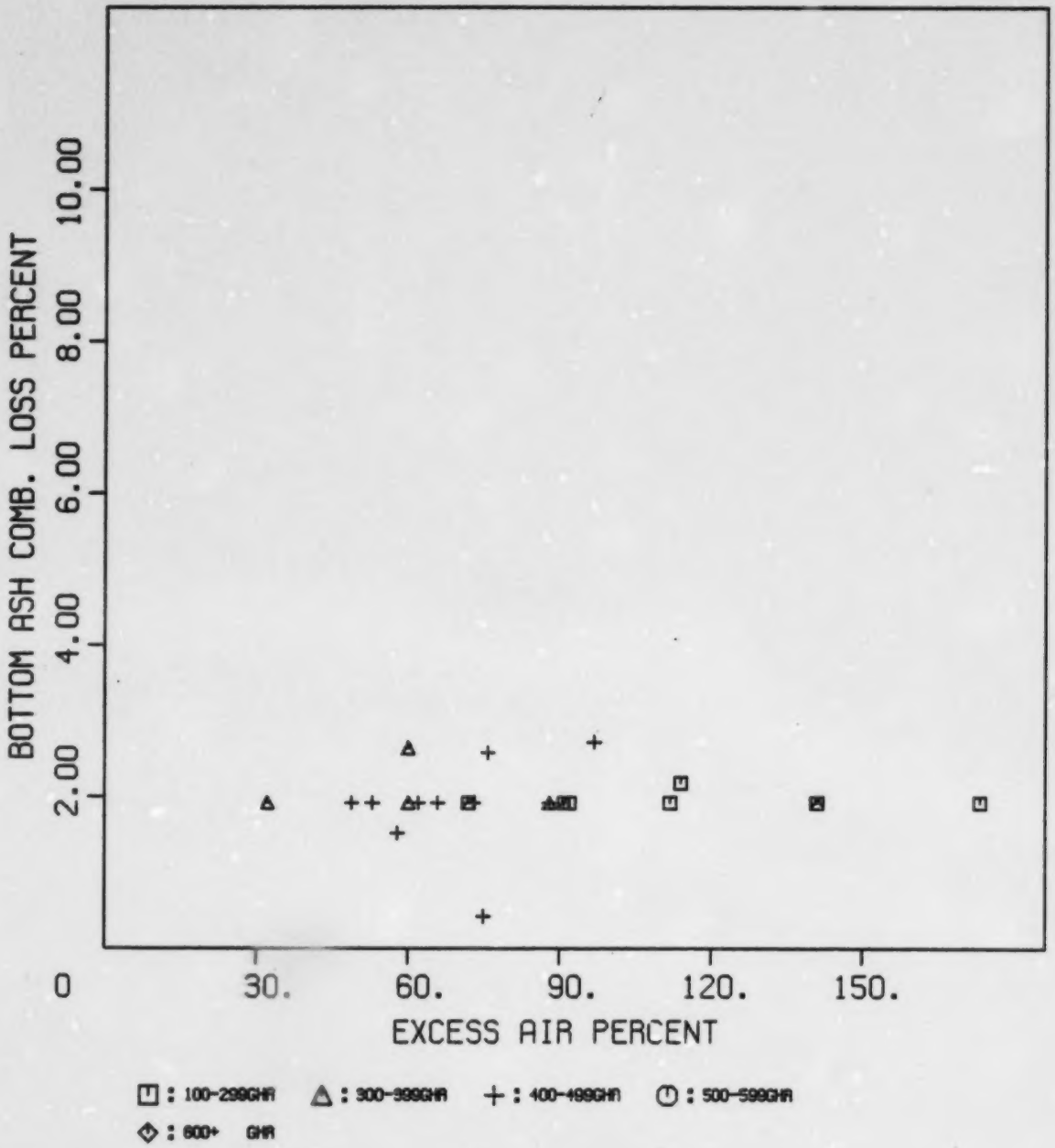


FIG. SITE H
BOTTOM ASH COMB. LOSS VS. EXCESS AIR

KVB4-15900-554

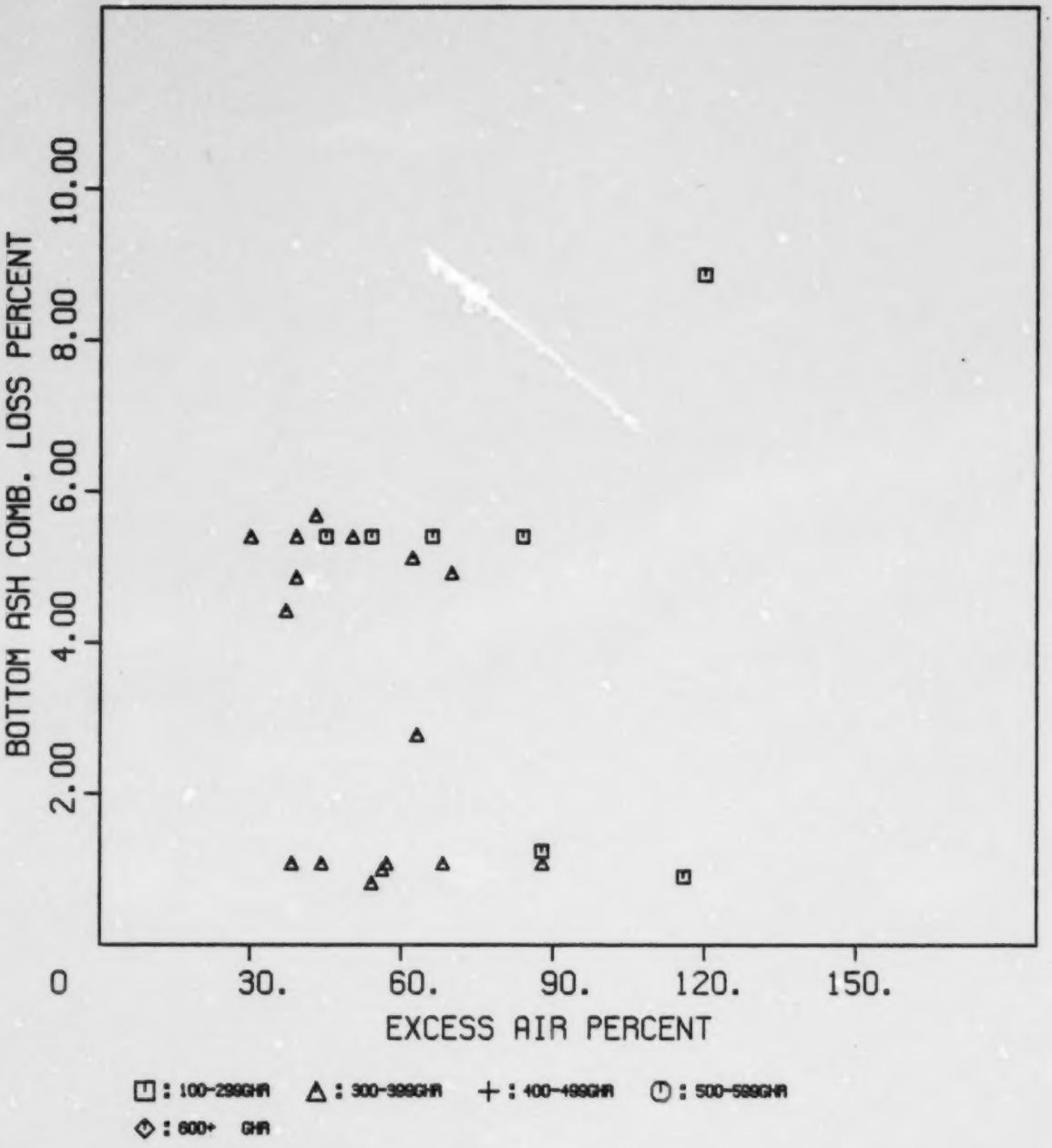


FIG. SITE I
BOTTOM ASH COMB. LOSS VS. EXCESS AIR

KVB4-15800-554

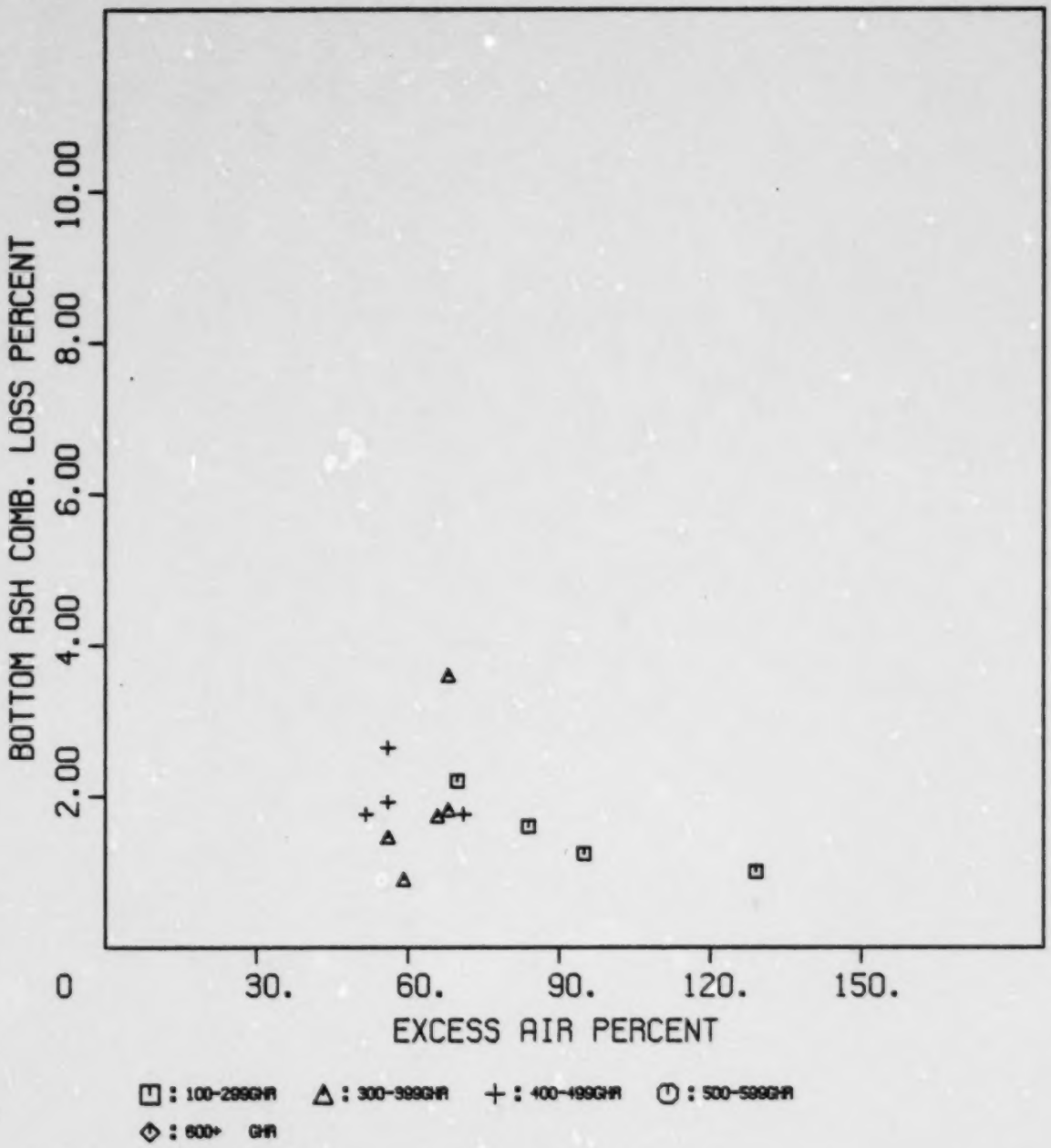


FIG. SITE J
BOTTOM ASH COMB. LOSS VS. EXCESS AIR

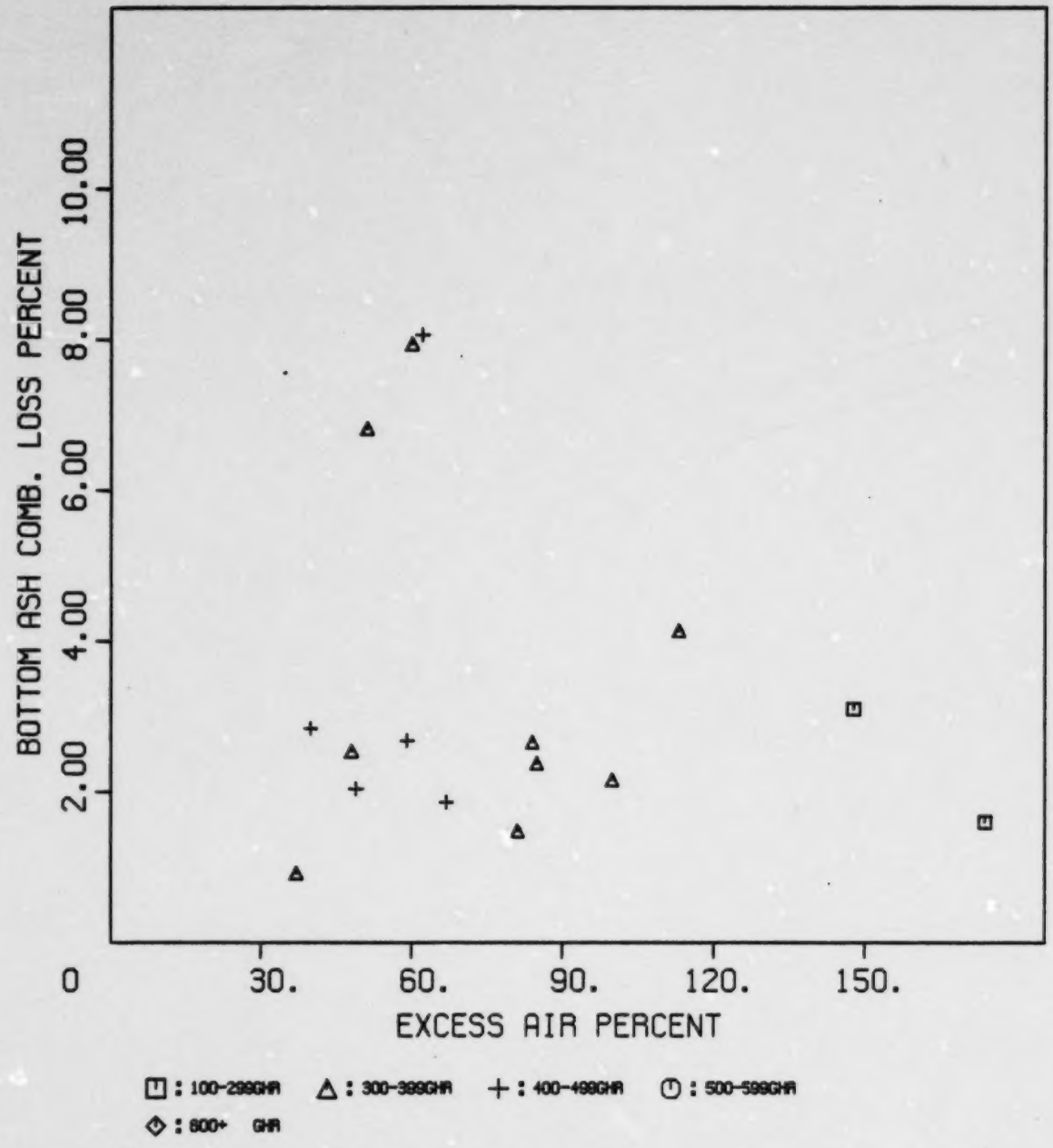


FIG. SITE K
BOTTOM ASH COMB. LOSS VS. EXCESS AIR

KVB4-15900-554

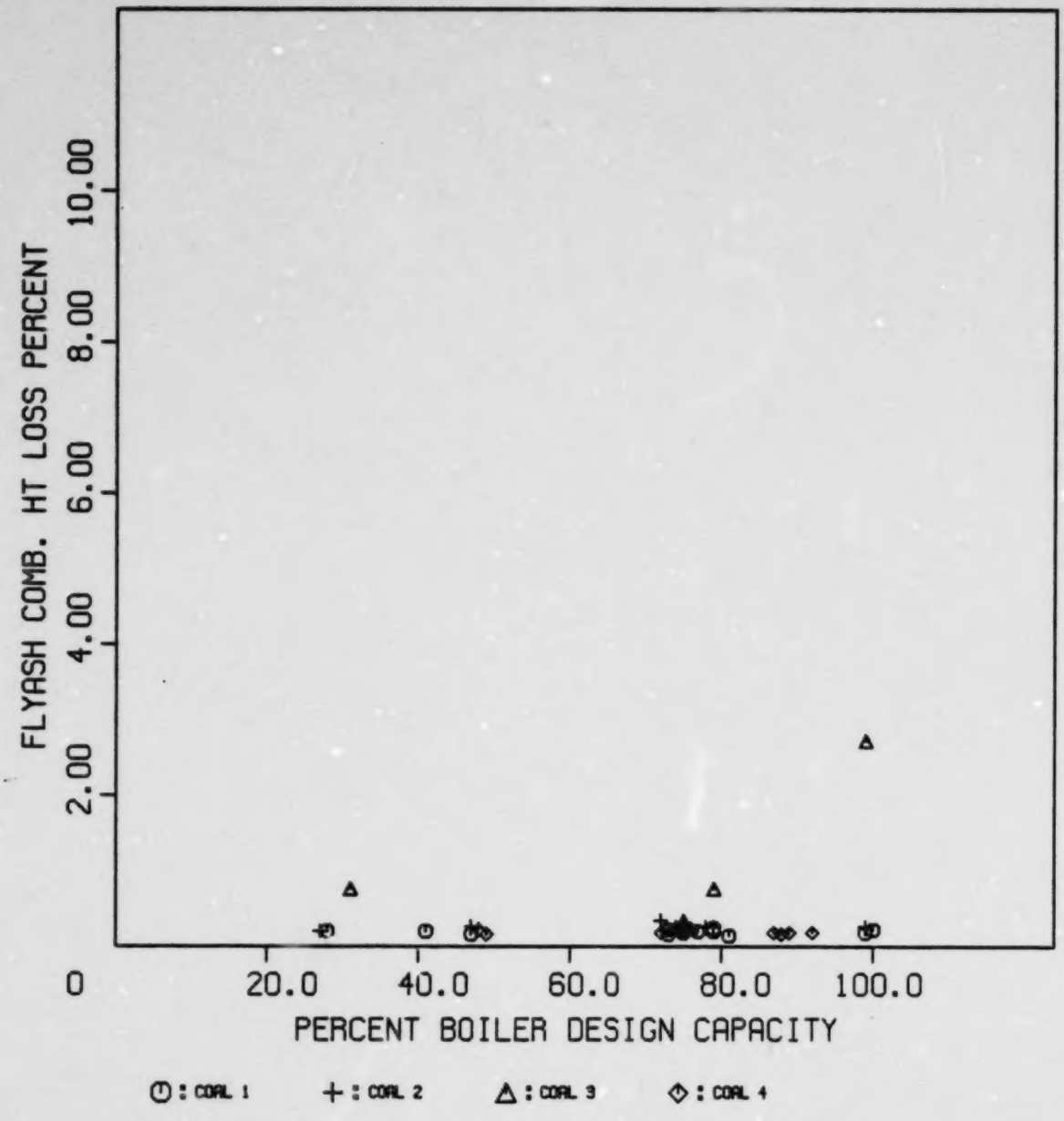


FIG. SITE B
FLYASH COMB. HT LOSS VS. PERCENT BOILER DESIGN CAPACITY

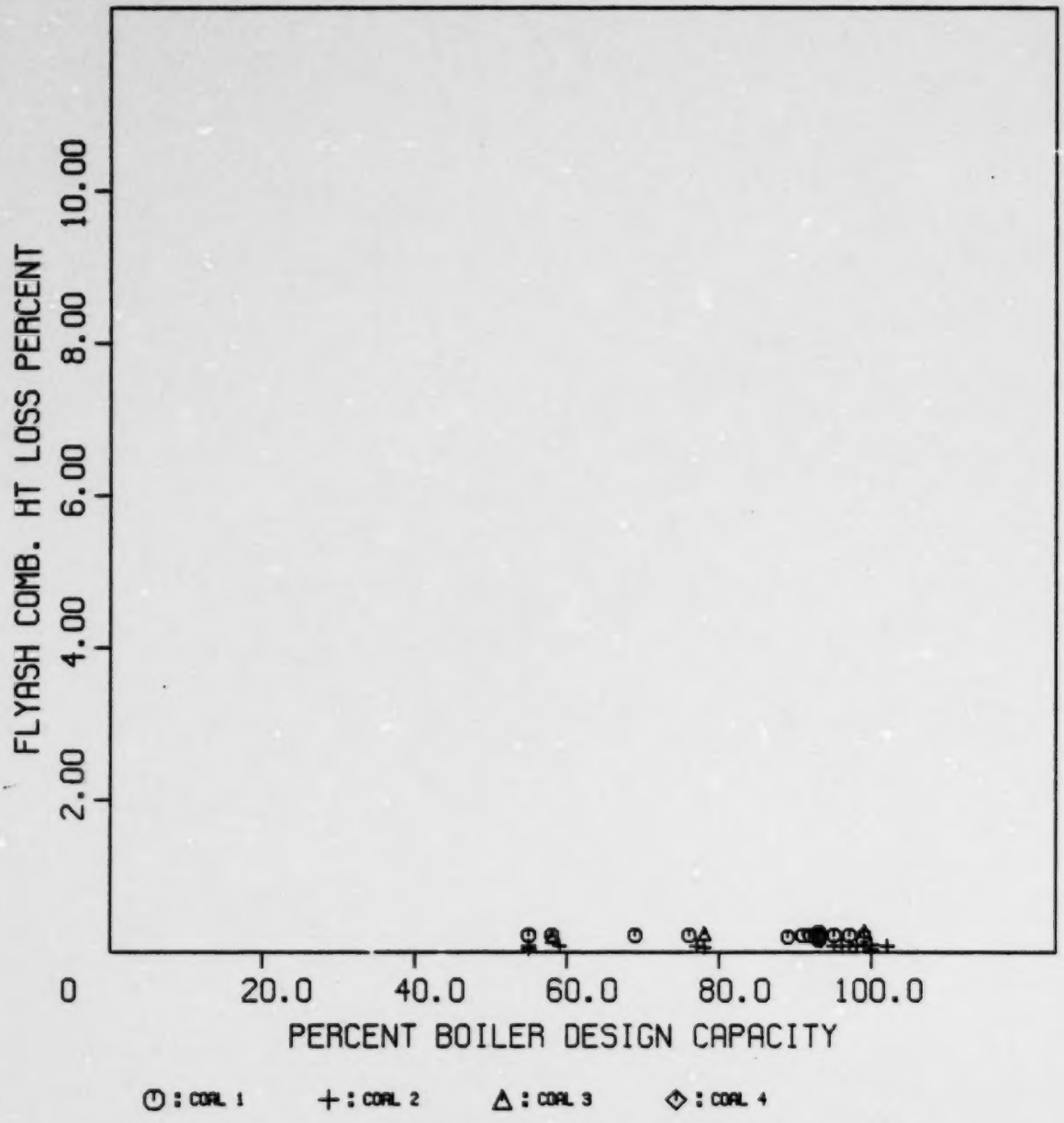


FIG. SITE C
FLYASH COMB. HT LOSS VS. PERCENT BOILER DESIGN CAPACITY

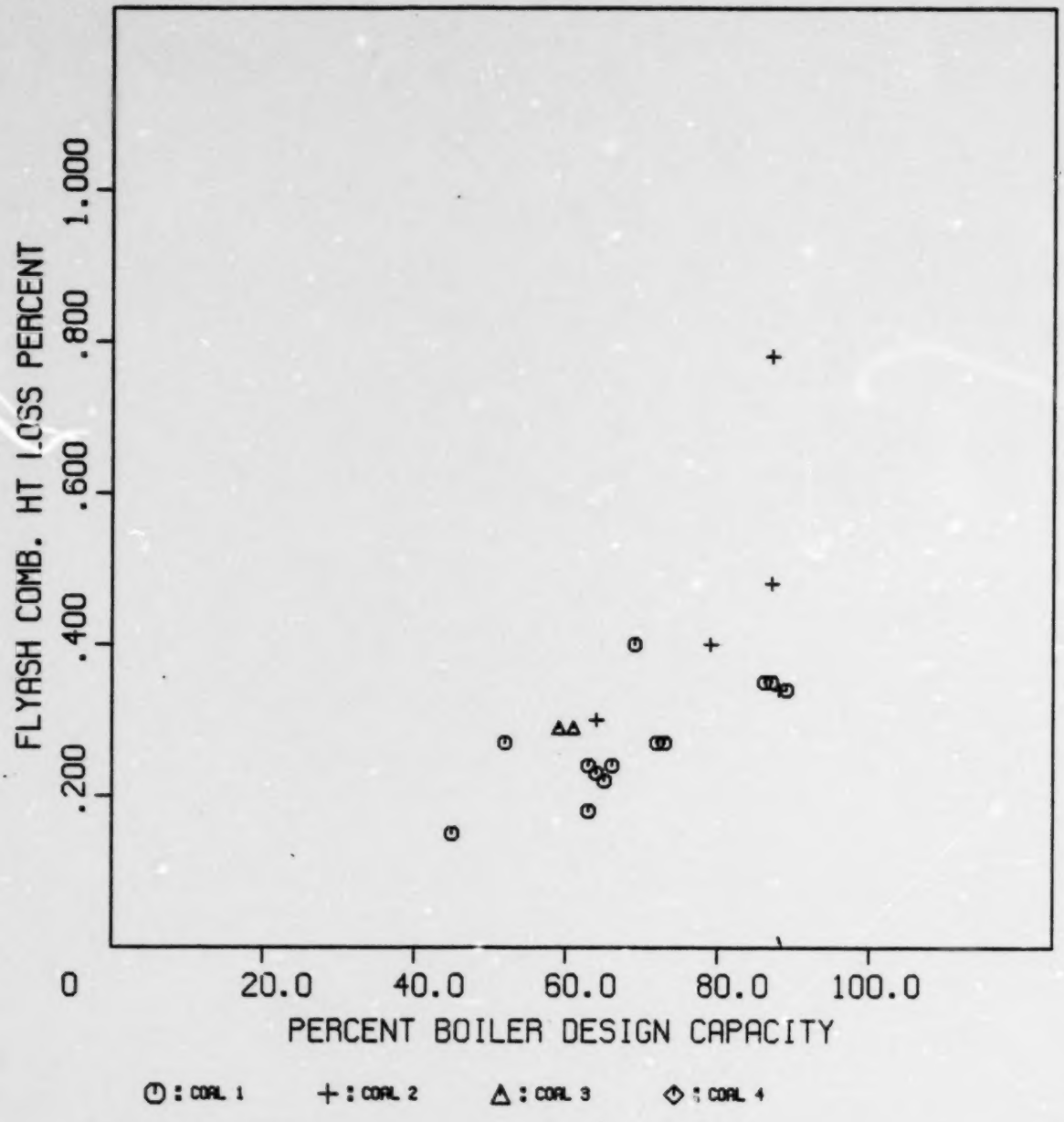


FIG. SITE D
FLYASH COMB. HT LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

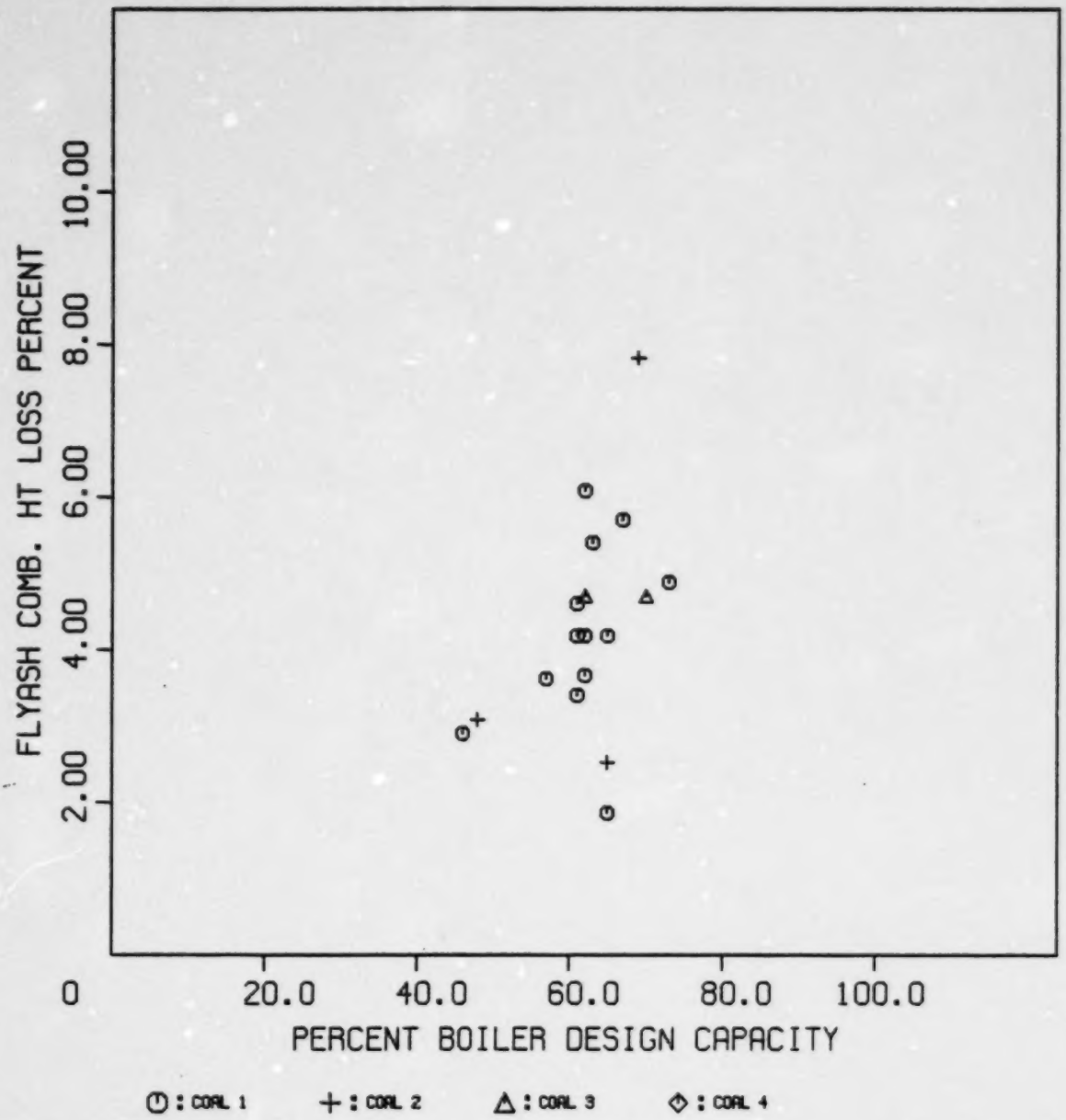


FIG. SITE E
FLYASH COMB. HT LOSS VS. PERCENT BOILER DESIGN CAPACITY

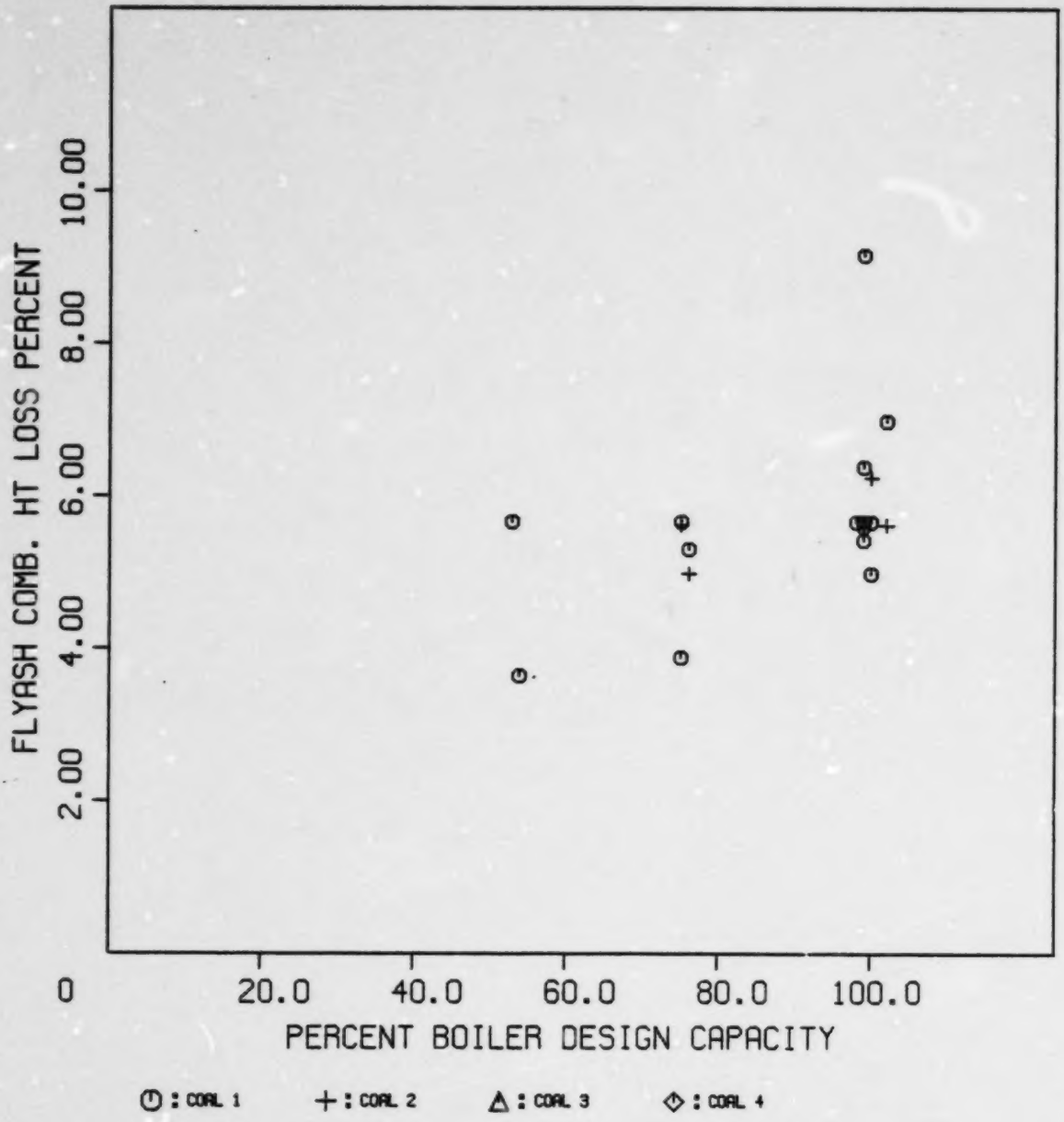


FIG. SITE F

FLYASH COMB. HT LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

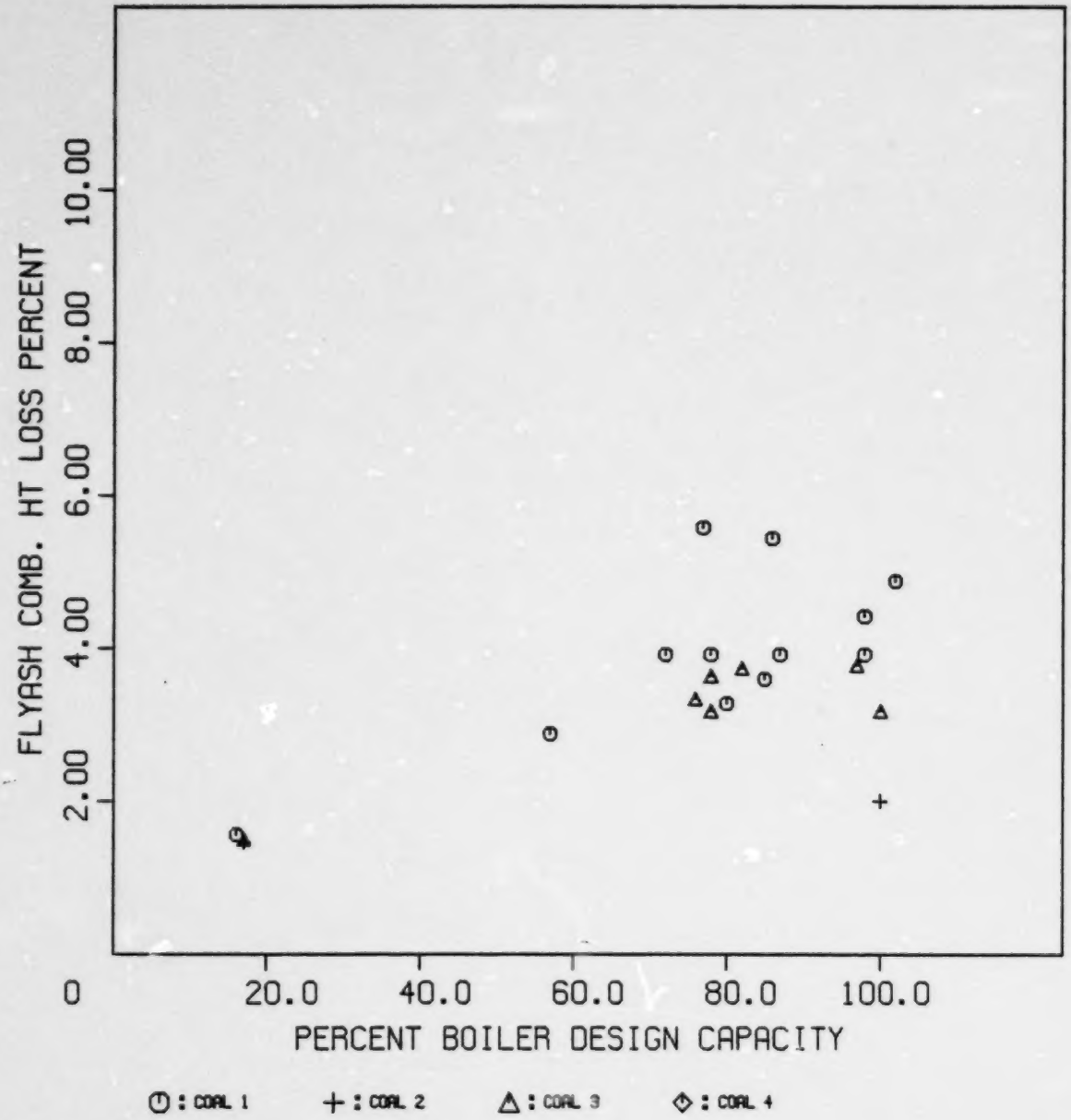


FIG. SITE G
FLYASH COMB. HT LOSS VS. PERCENT BOILER DESIGN CAPACITY

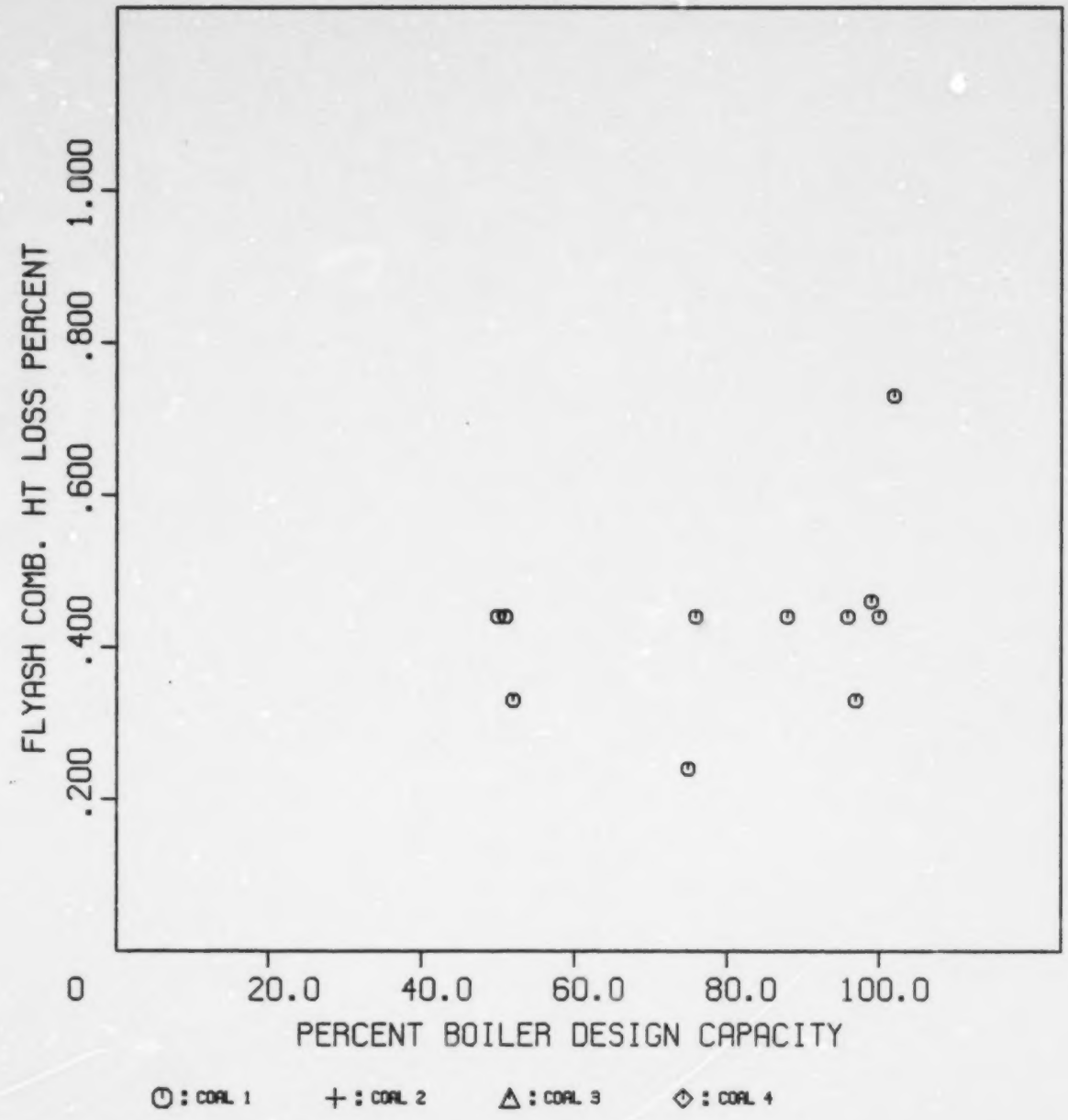


FIG. SITE H
FLYASH COMB. HT LOSS VS. PERCENT BOILER DESIGN CAPACITY

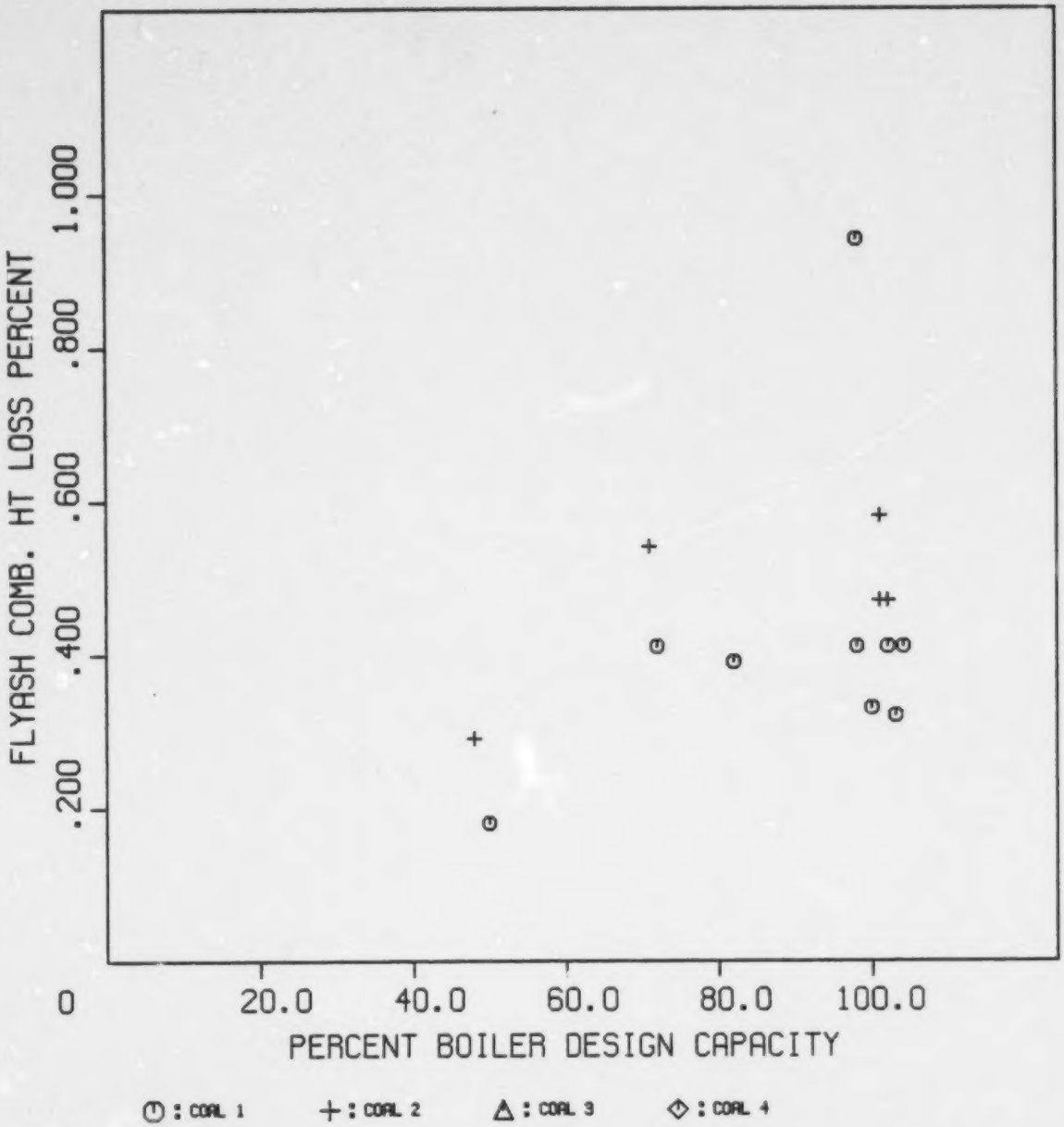


FIG. SITE I
FLYASH COMB. HT LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15800-554

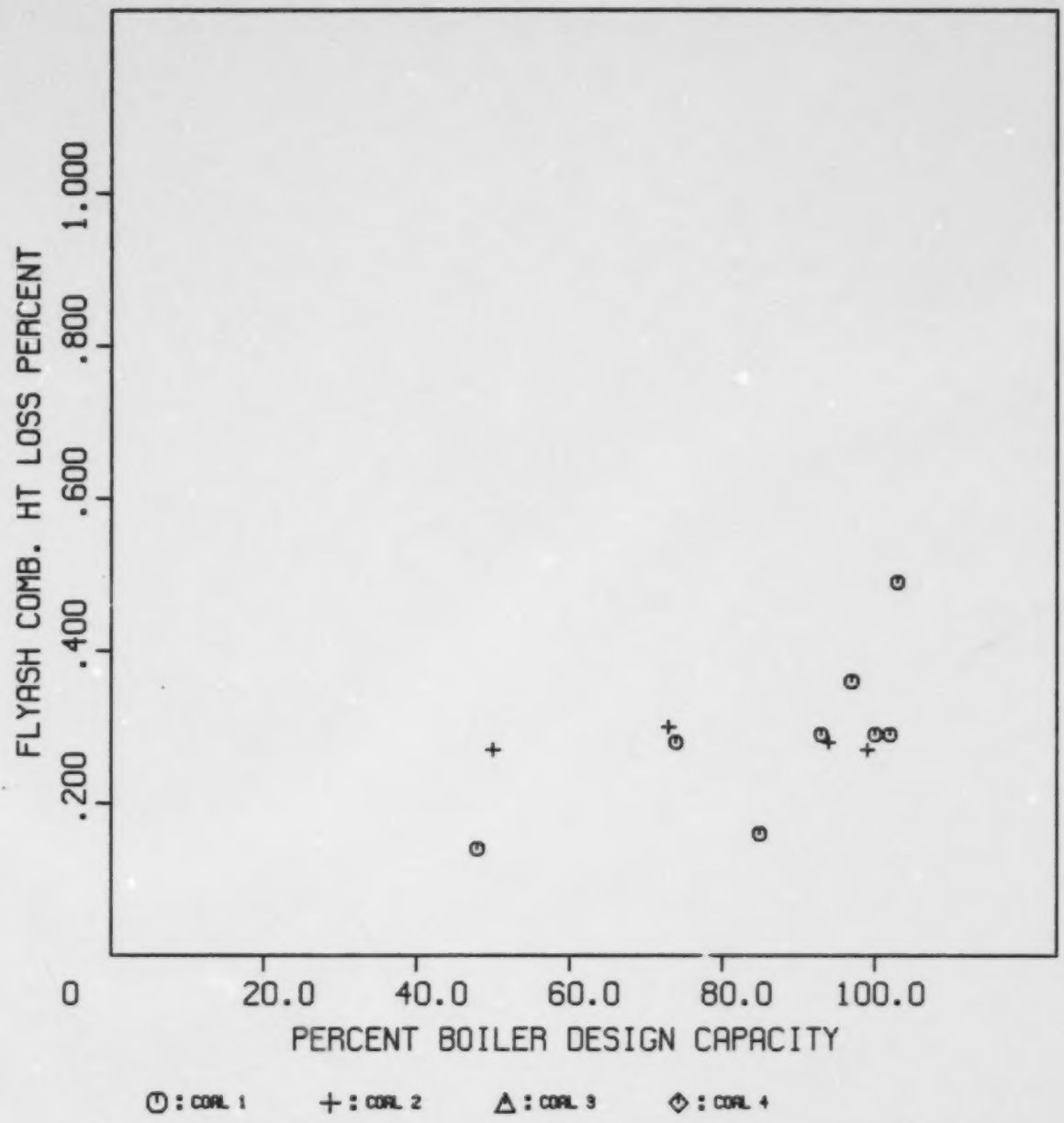


FIG. SITE J
FLYASH COMB. HT LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

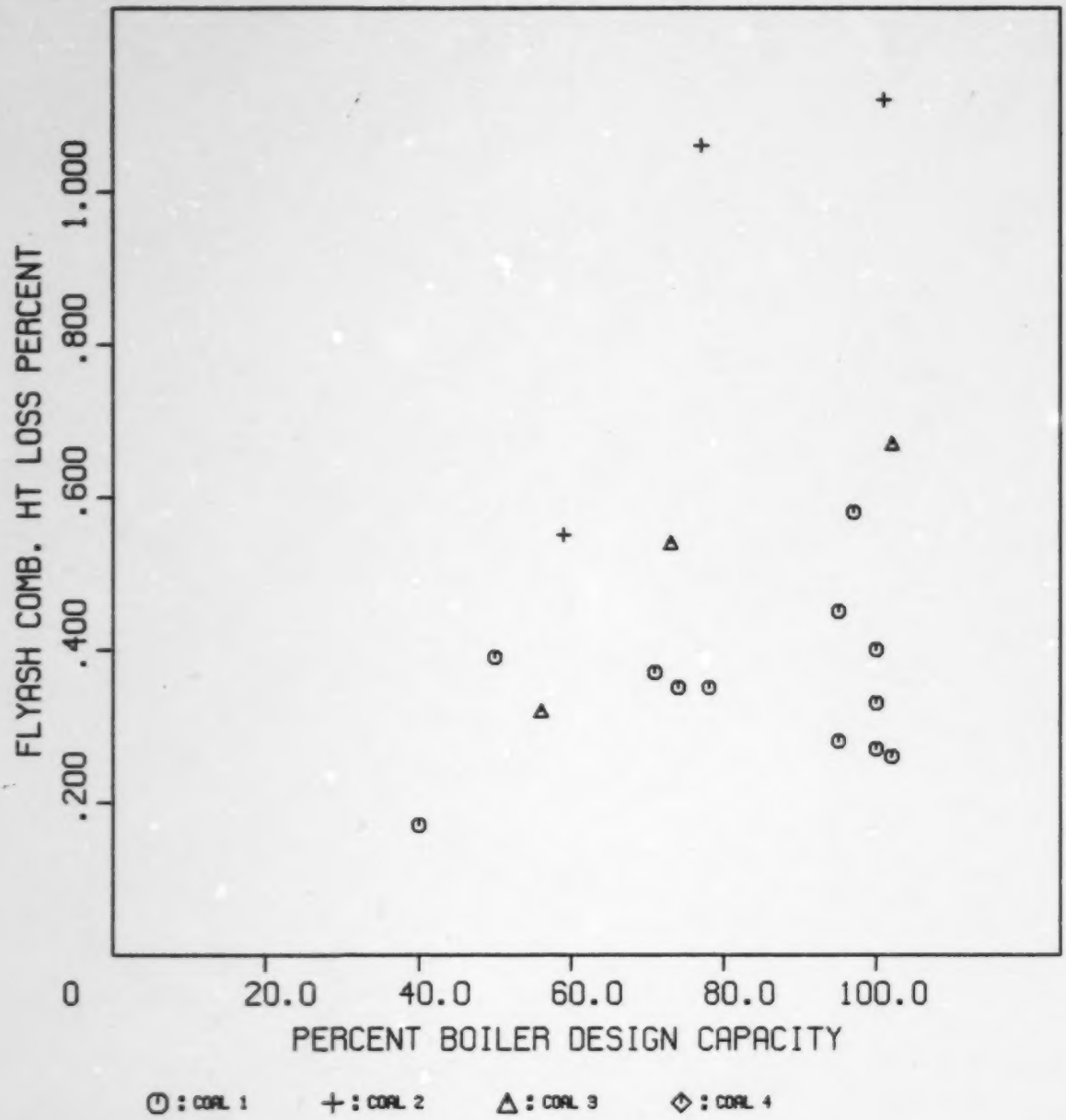


FIG. SITE K
FLYASH COMB. HT LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

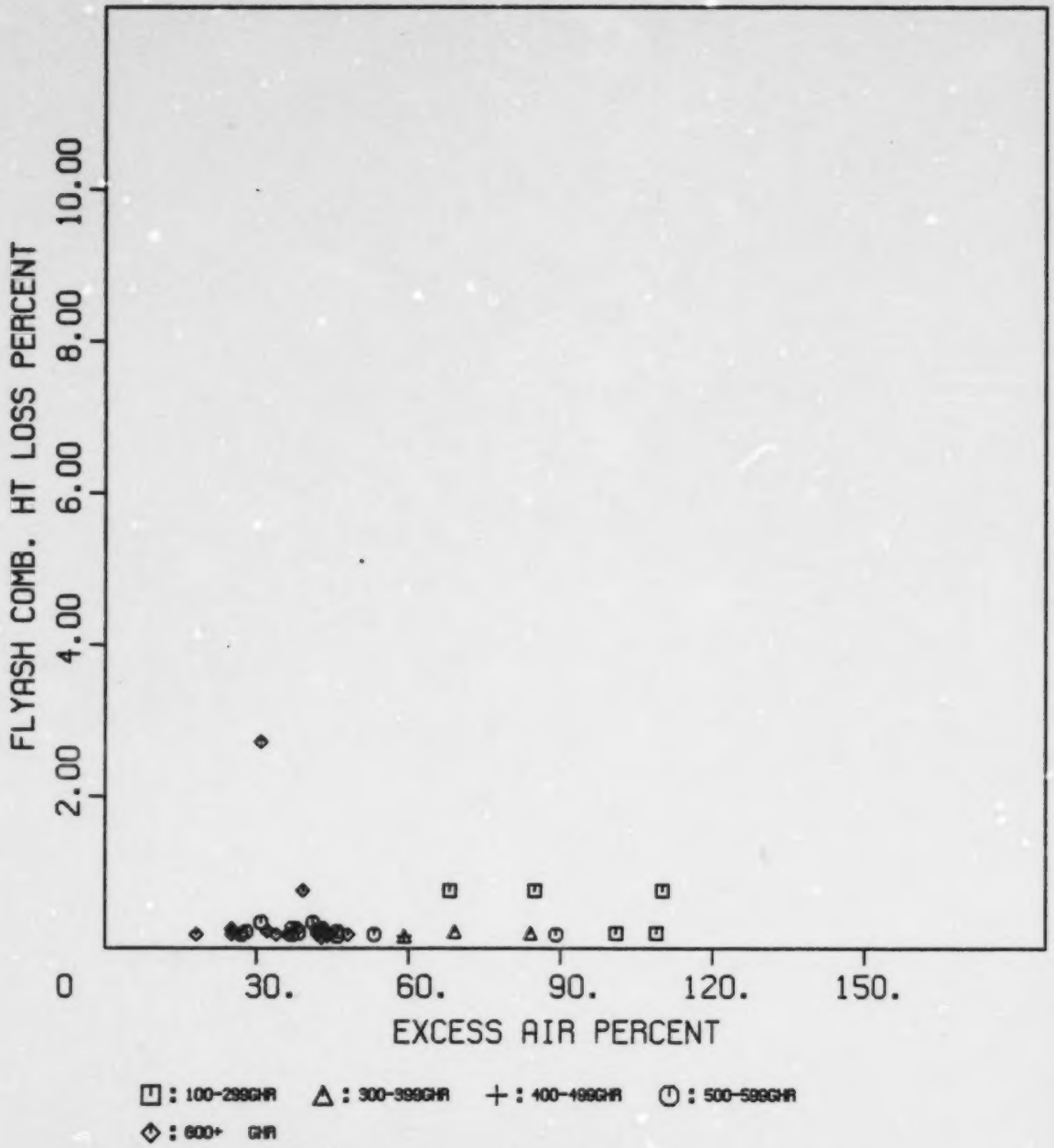


FIG. SITE B
FLYASH COMB. HT LOSS VS. EXCESS AIR

KVB4-15900-554

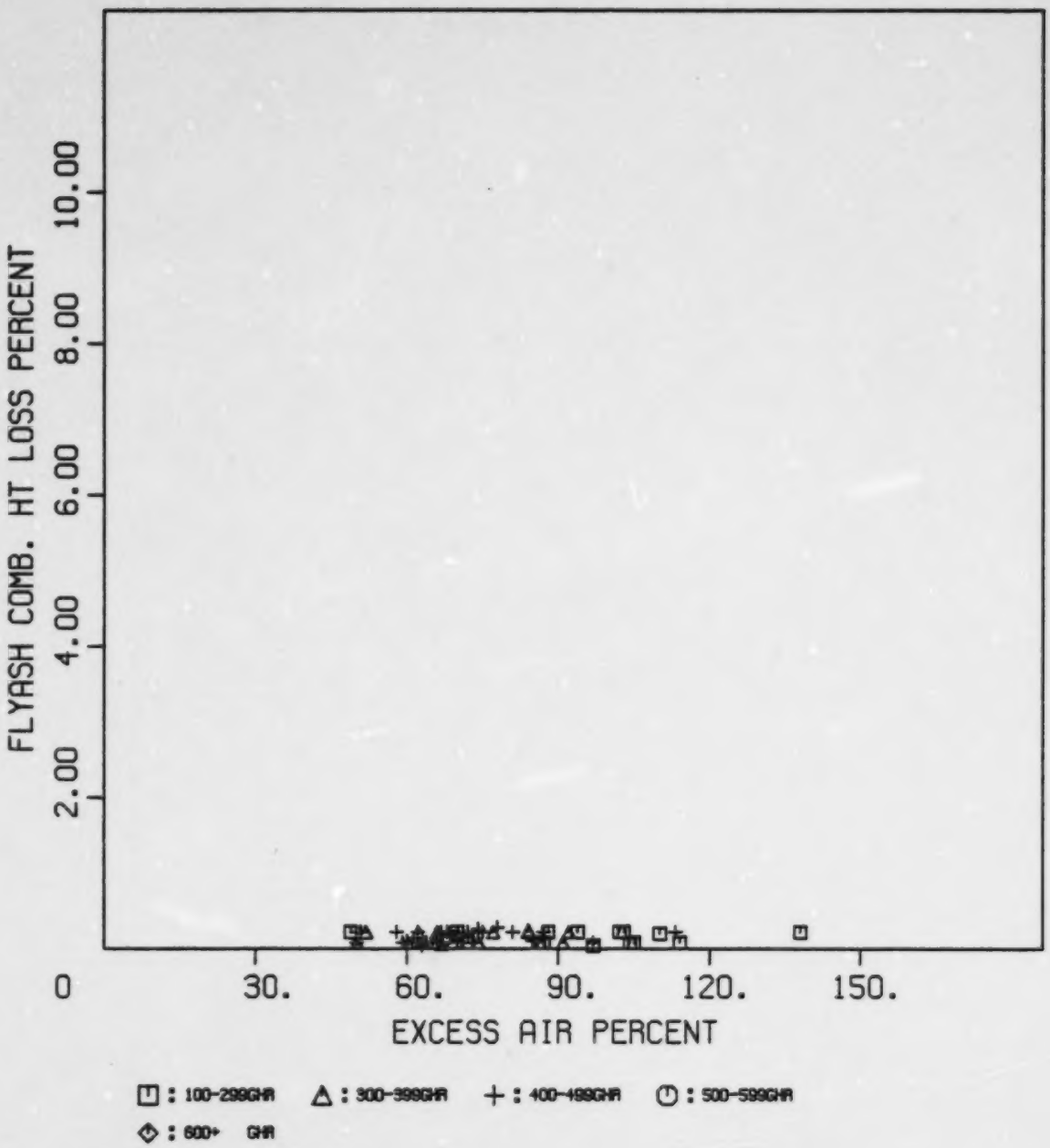


FIG. SITE C
FLYASH COMB. HT LOSS VS. EXCESS AIR

KYB4-15900-554

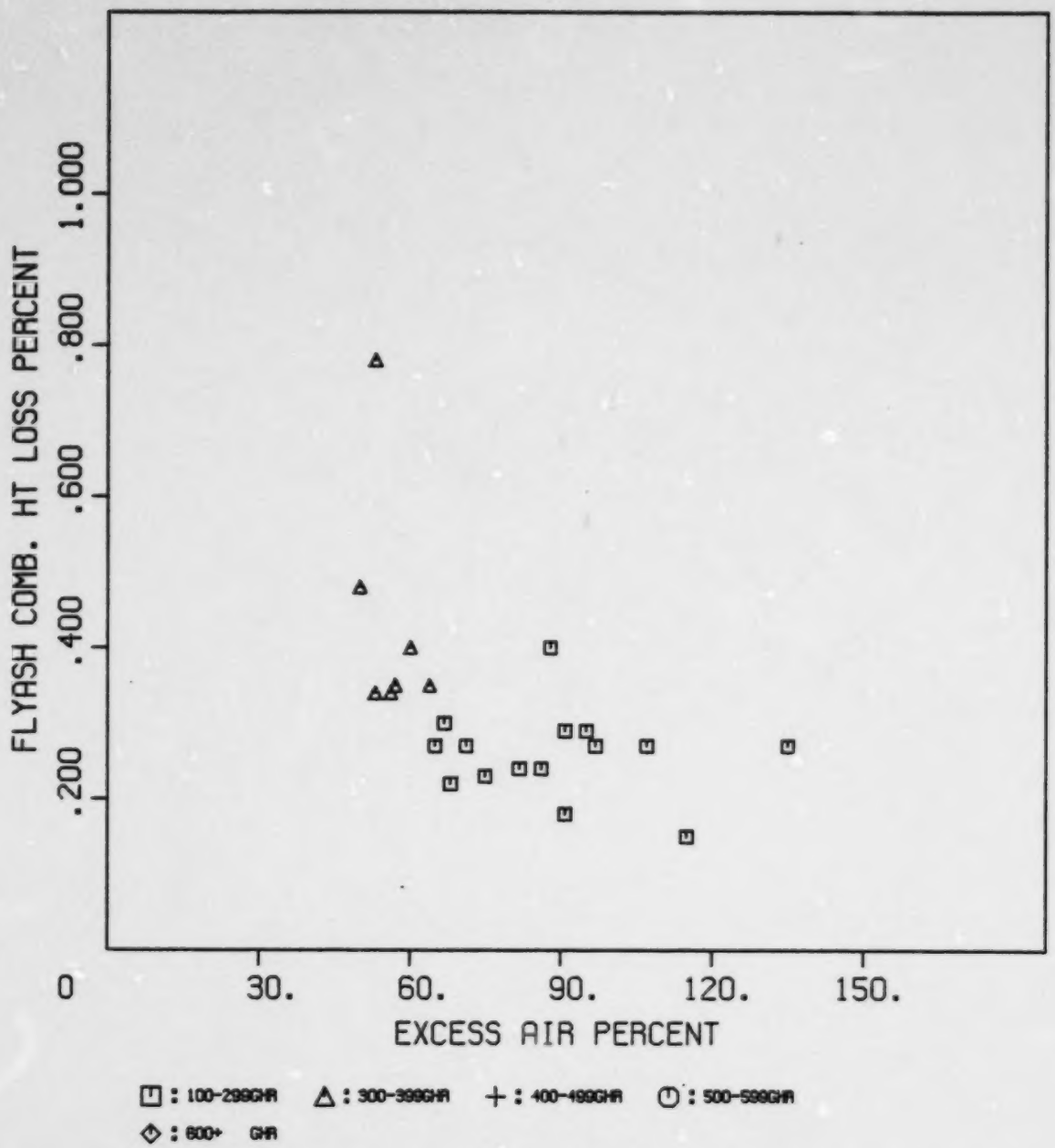


FIG. SITE D
FLYASH COMB. HT LOSS VS. EXCESS AIR

KVB4-15900-554

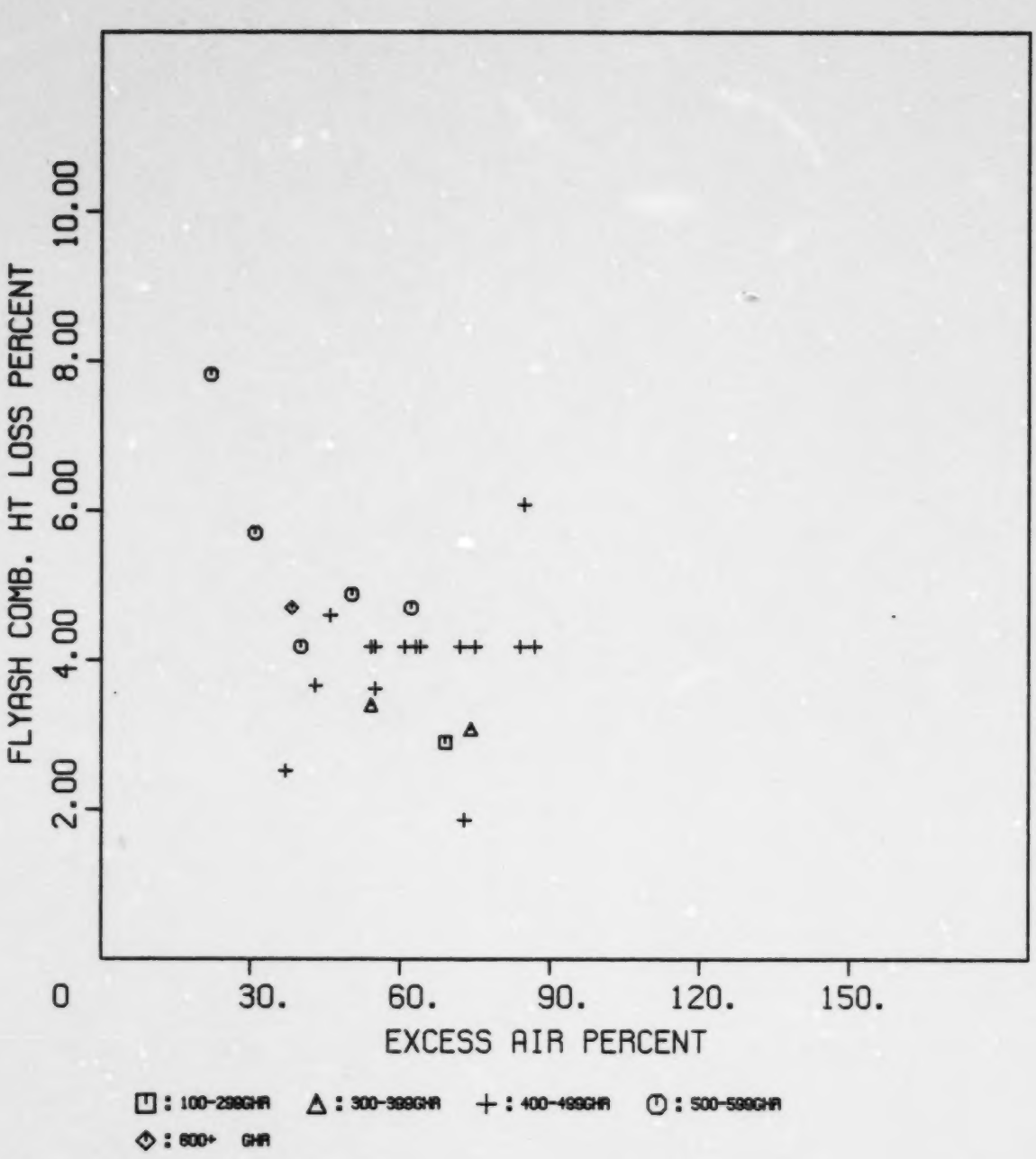


FIG. SITE E
FLYASH COMB. HT LOSS VS. EXCESS AIR

KVB4-15900-554

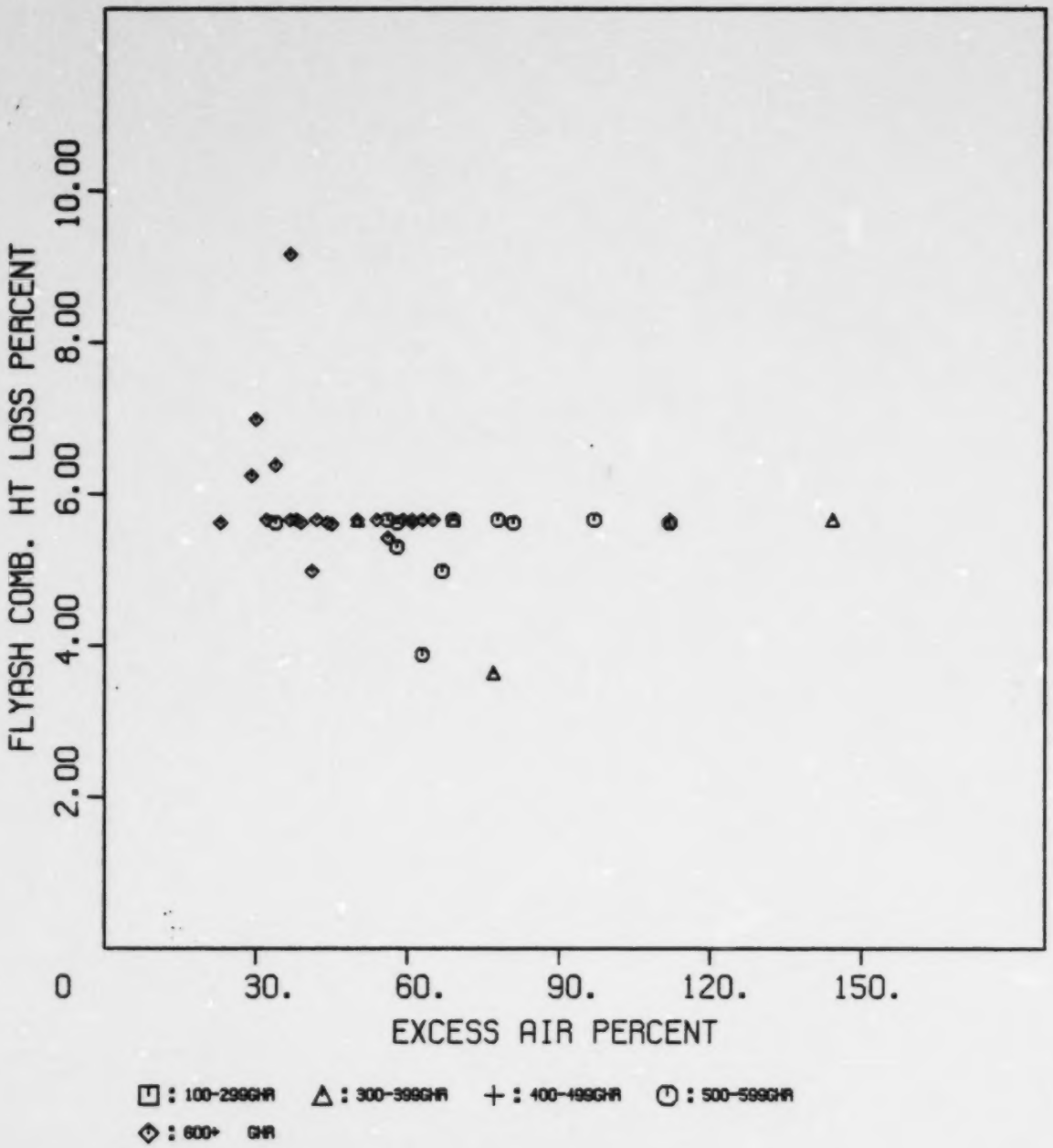


FIG. SITE F
FLYASH COMB. HT LOSS VS. EXCESS AIR

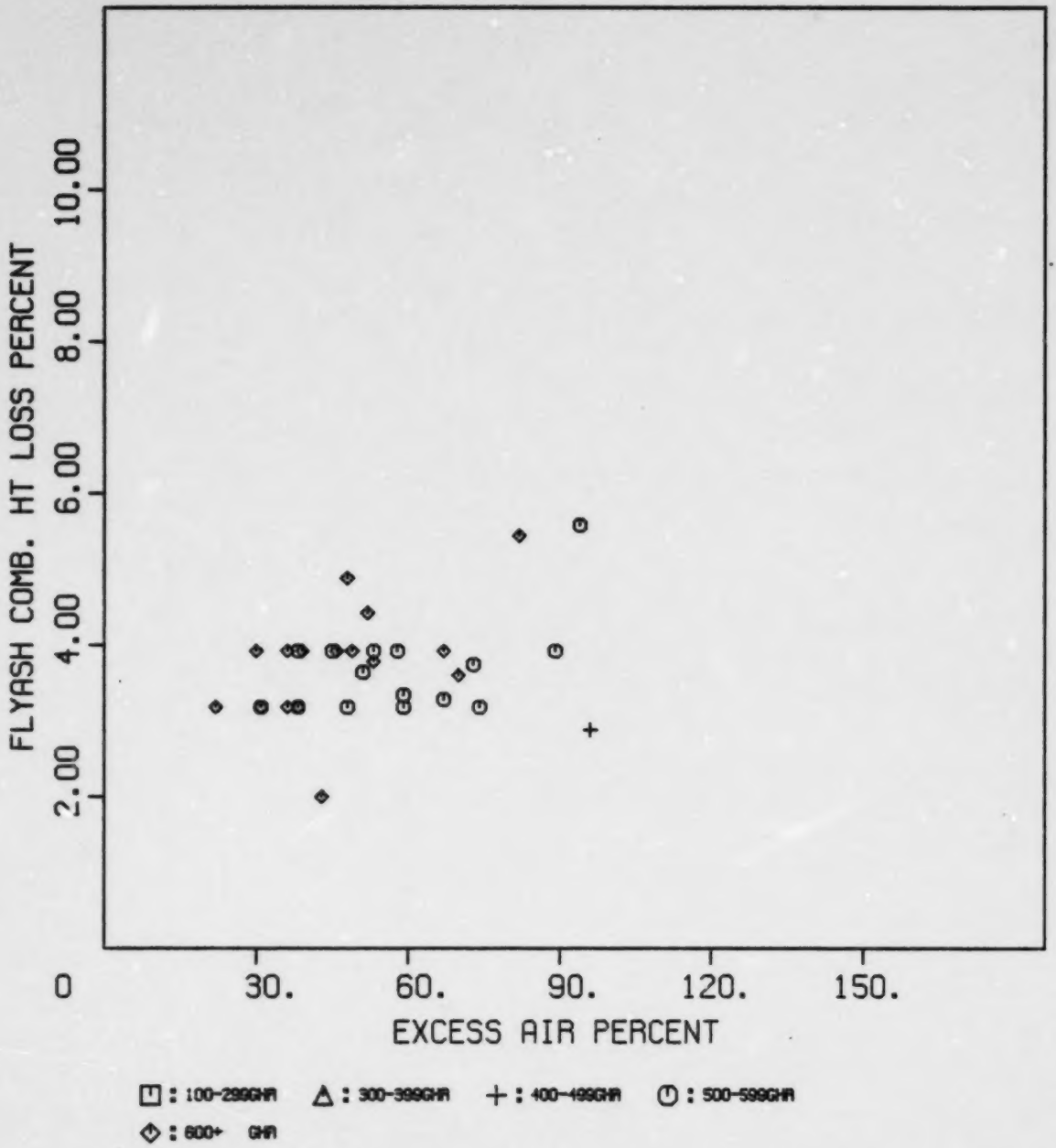


FIG. SITE G
FLYASH COMB. HT LOSS VS. EXCESS AIR

KVB4-15900-554

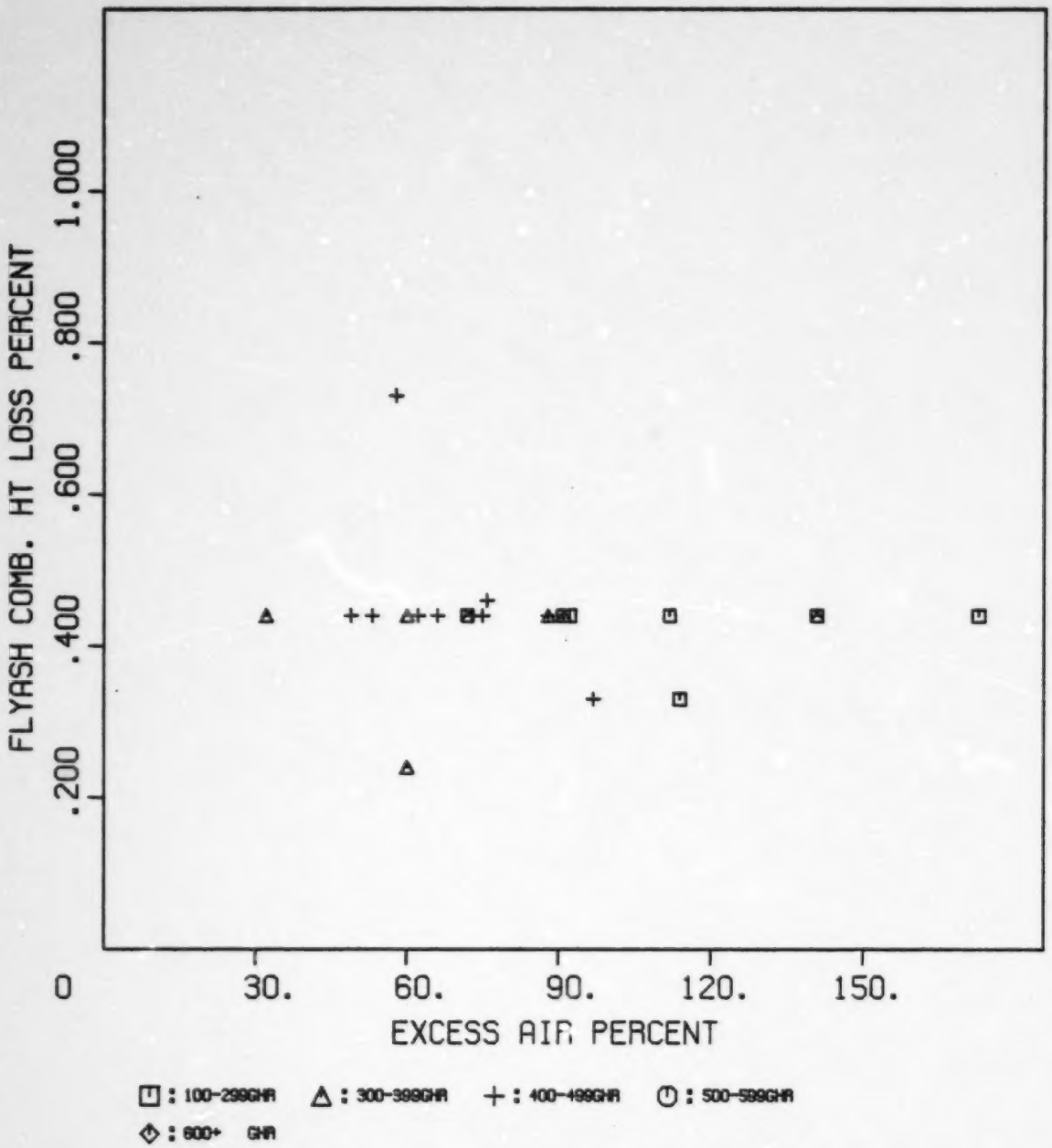


FIG. SITE H
FLYASH COMB. HT LOSS VS. EXCESS AIR

KVB4-15900-554

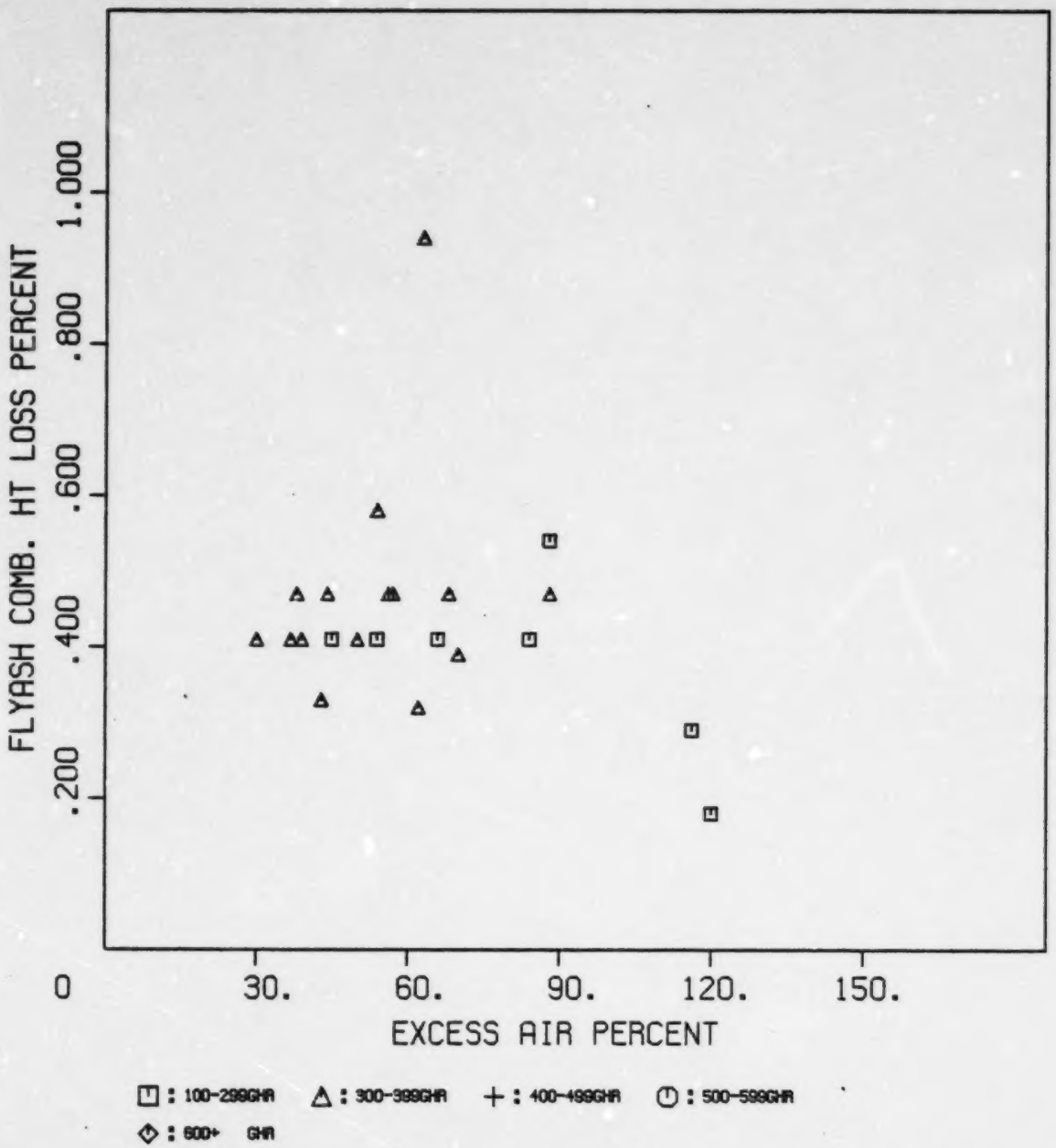


FIG. SITE I
FLYASH COMB. HT LOSS VS. EXCESS AIR

KVB4-15900-554

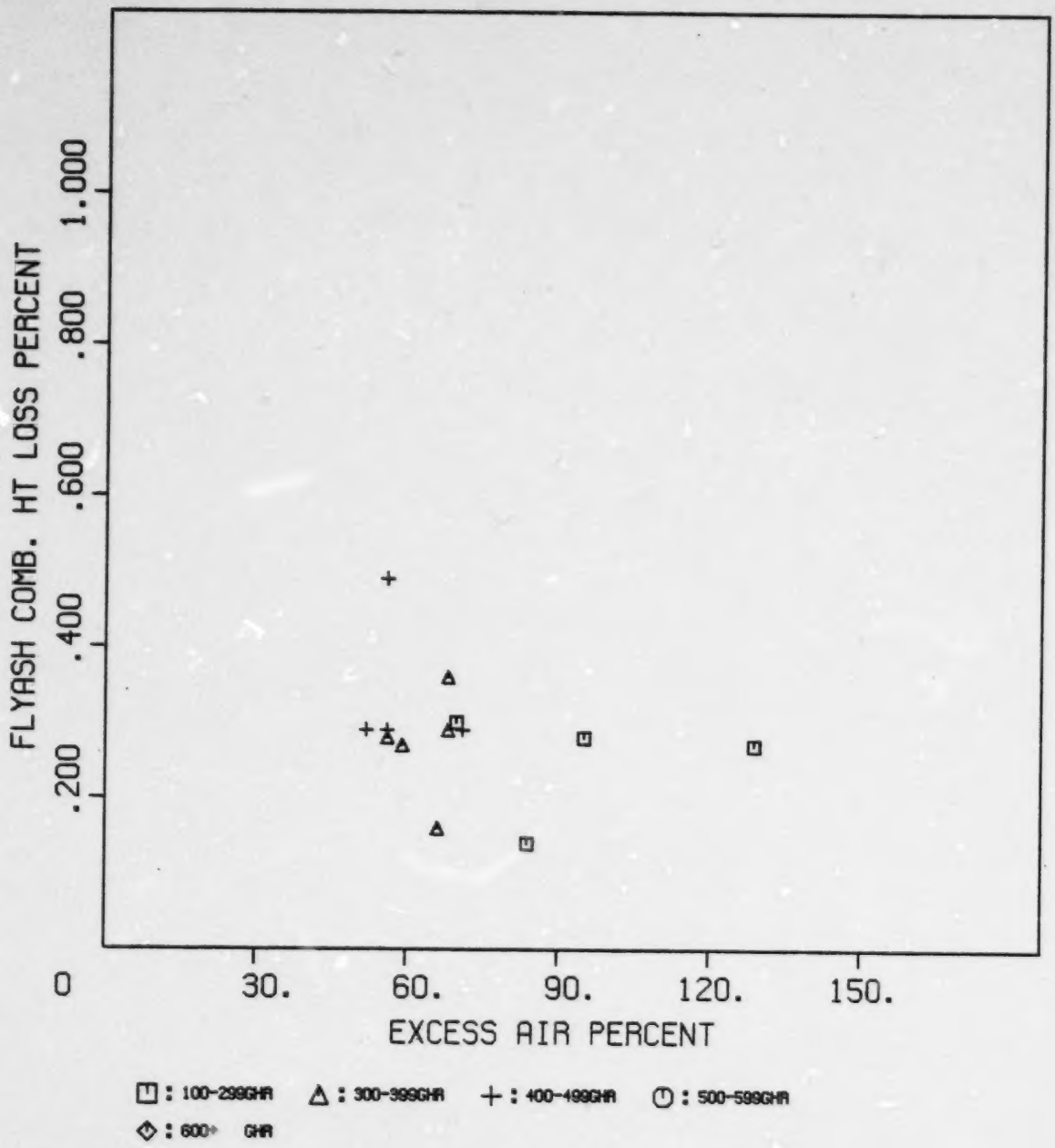


FIG. SITE J
FLYASH COMB. HT LOSS VS. EXCESS AIR

KVB4-15900-554

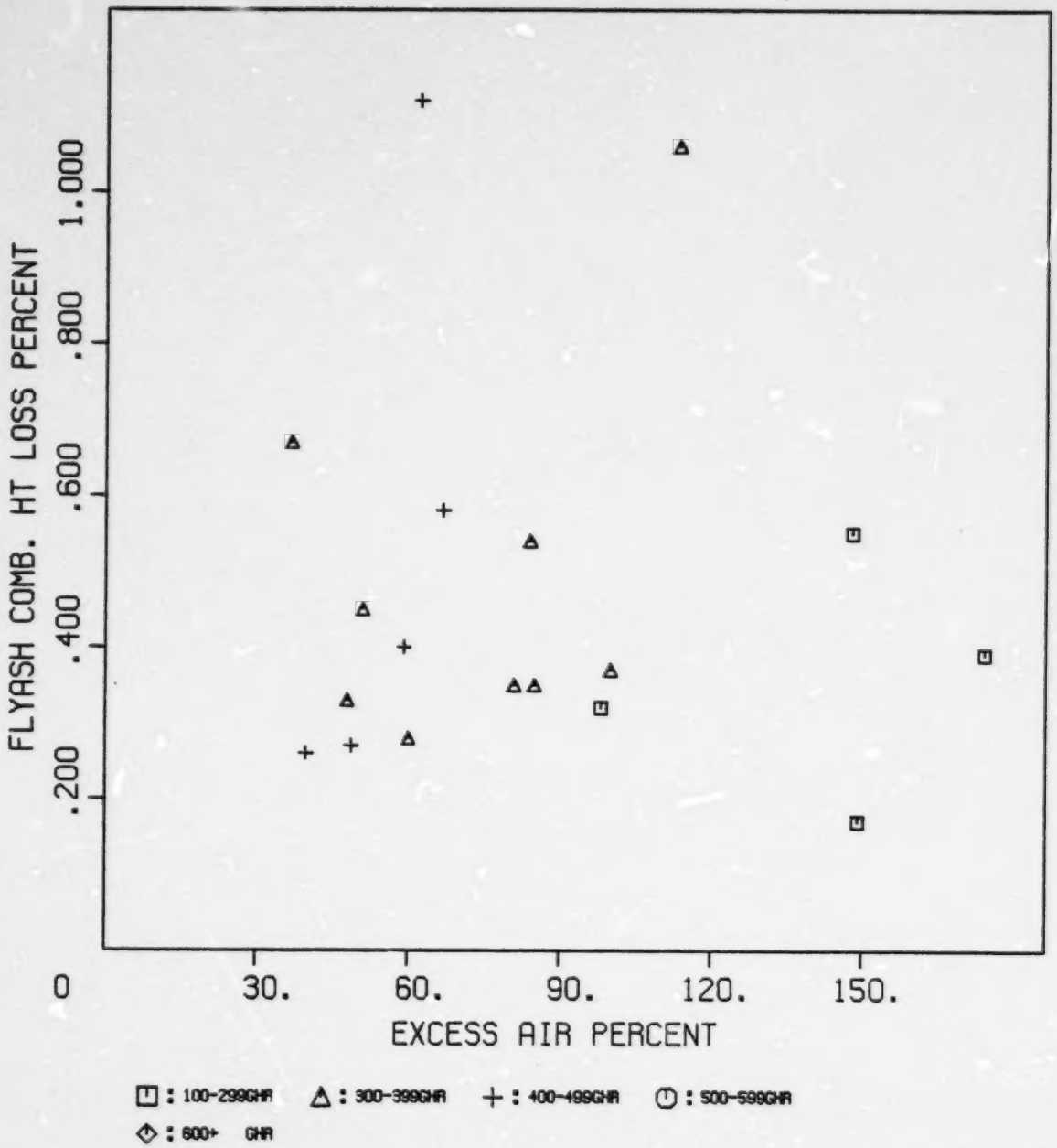


FIG. SITE K
FLYASH COMB. HT LOSS VS. EXCESS AIR

KVB4-15900-554

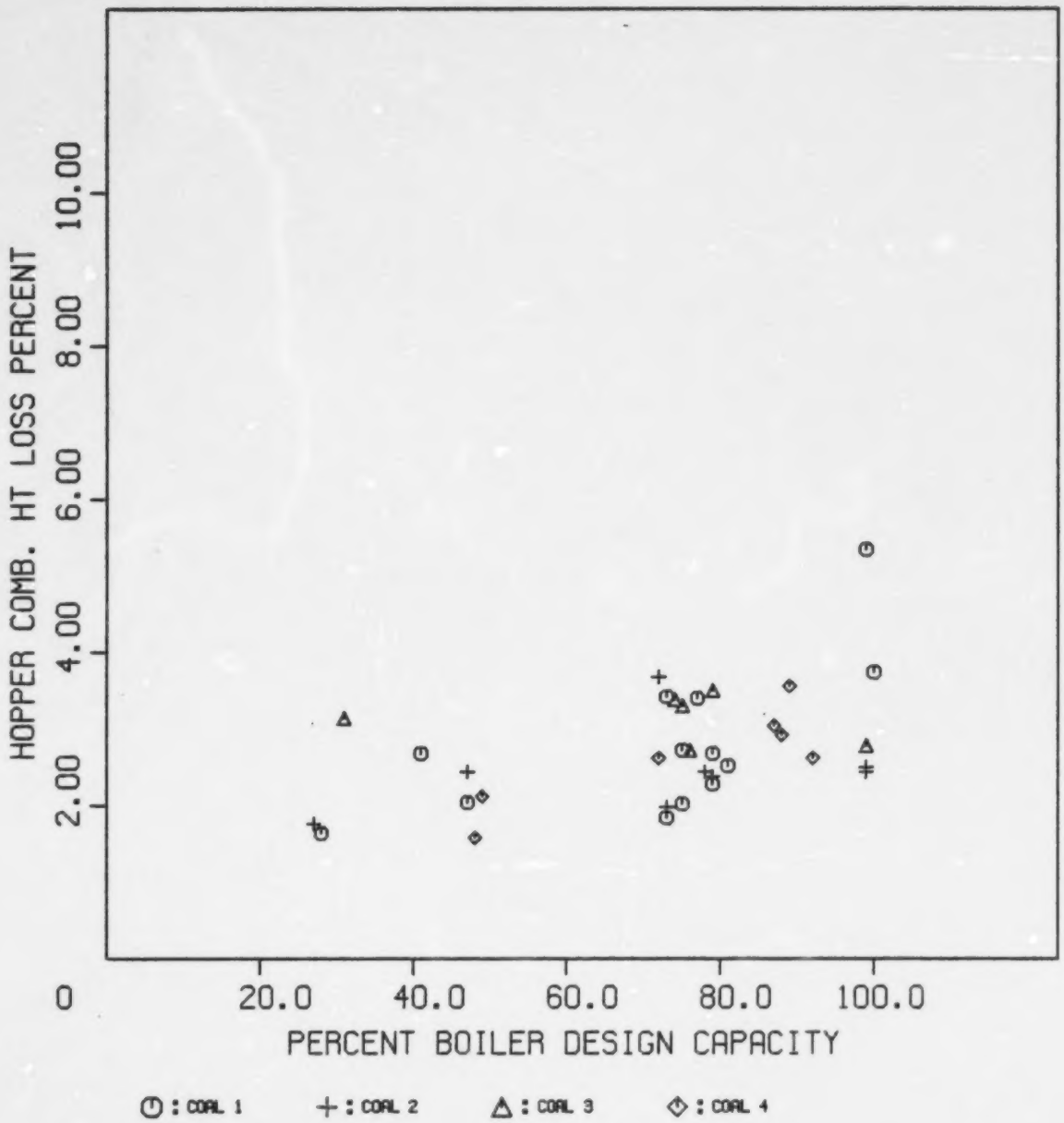


FIG. SITE B
HOPPER COMB. HT LOSS VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

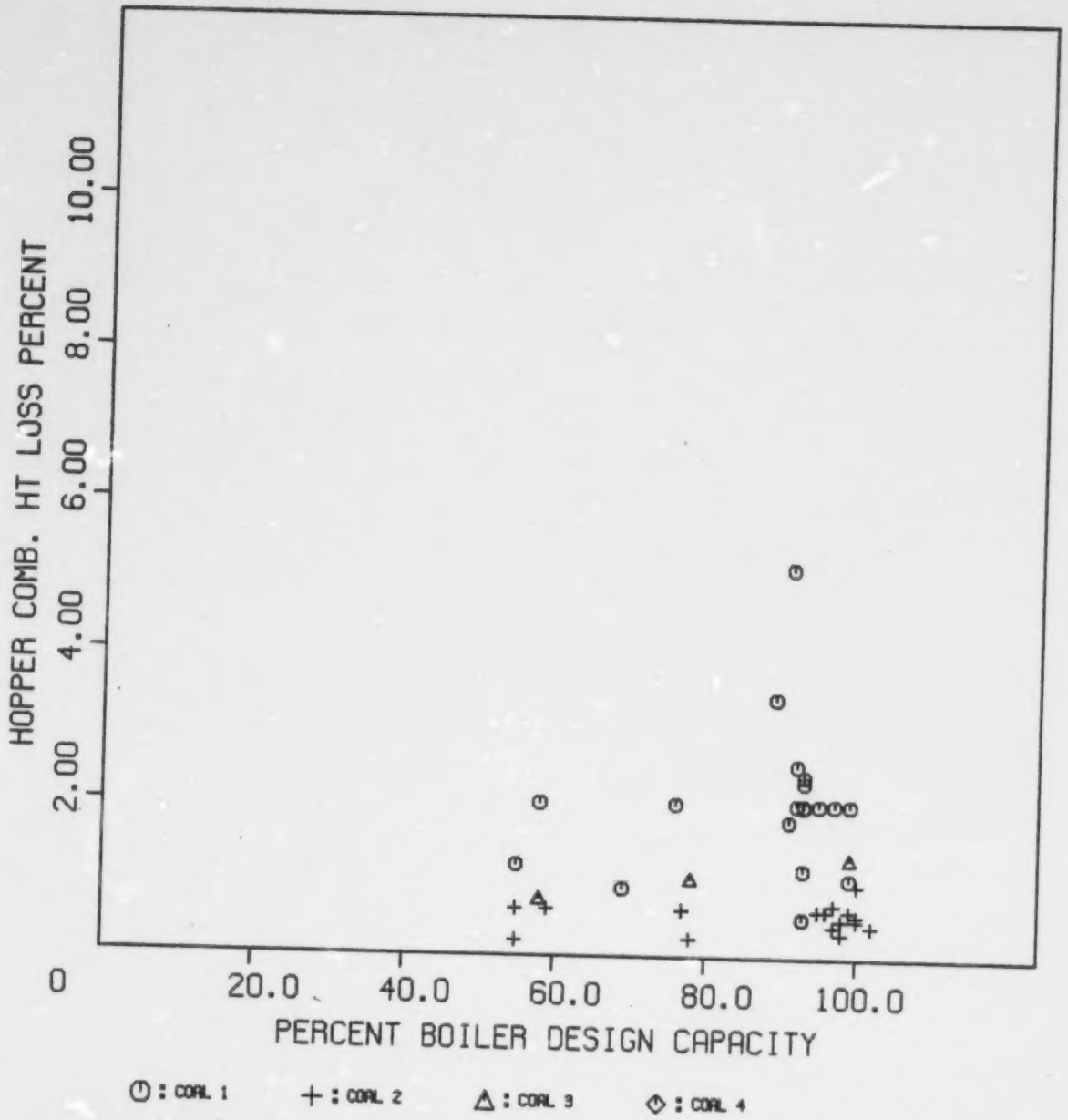


FIG. SITE C
HOPPER COMB. HT LOSS VS. PERCENT BOILER DESIGN CAPACITY

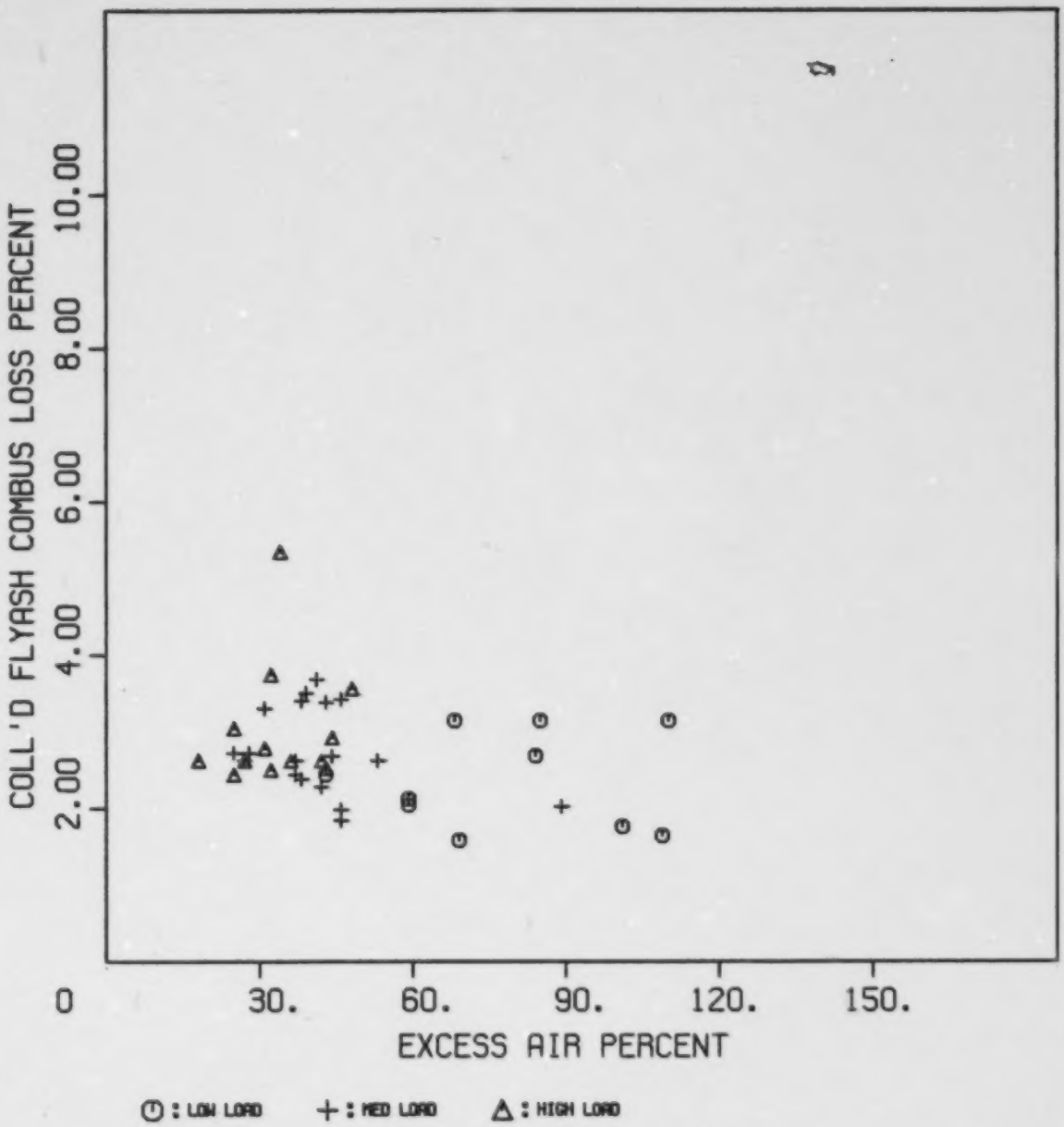


FIG. SITE B
COLL'D FLYASH COMBUS LOSS VS. EXCESS AIR

4-15800-554

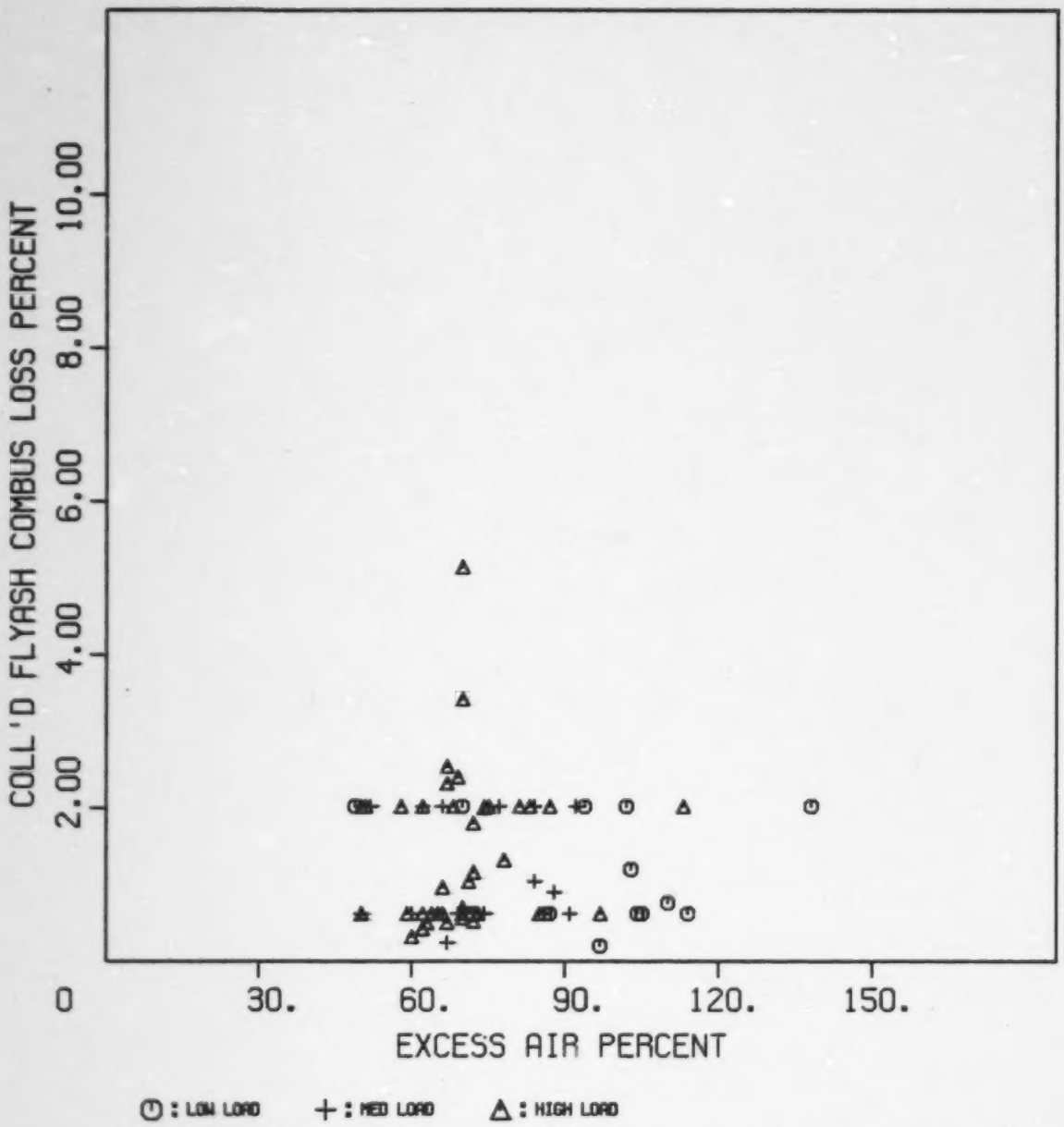


FIG. SITE C
COLL'D FLYASH COMBUS LOSS VS. EXCESS AIR

4-15900-554

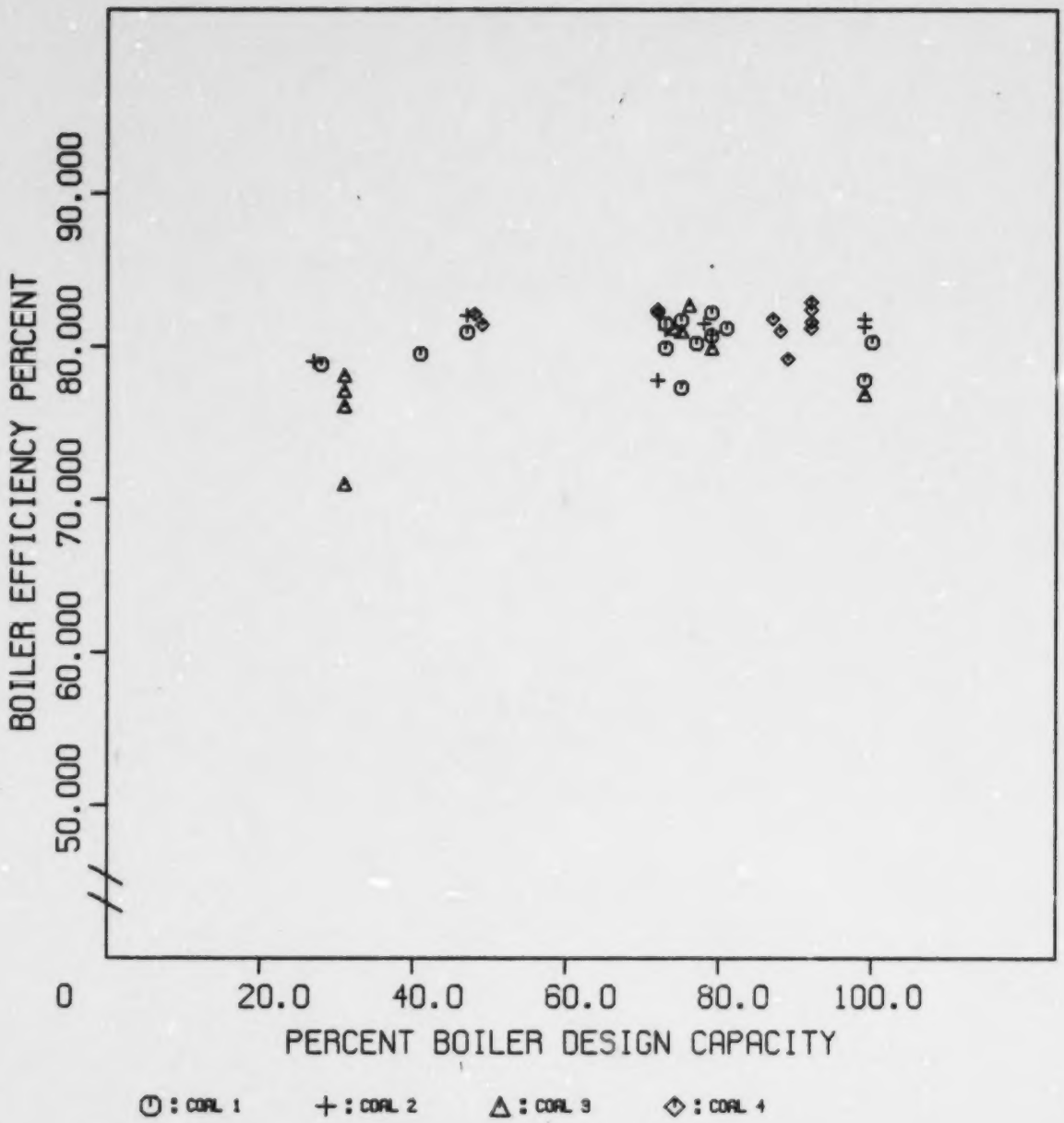


FIG. SITE B
BOILER EFFICIENCY VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

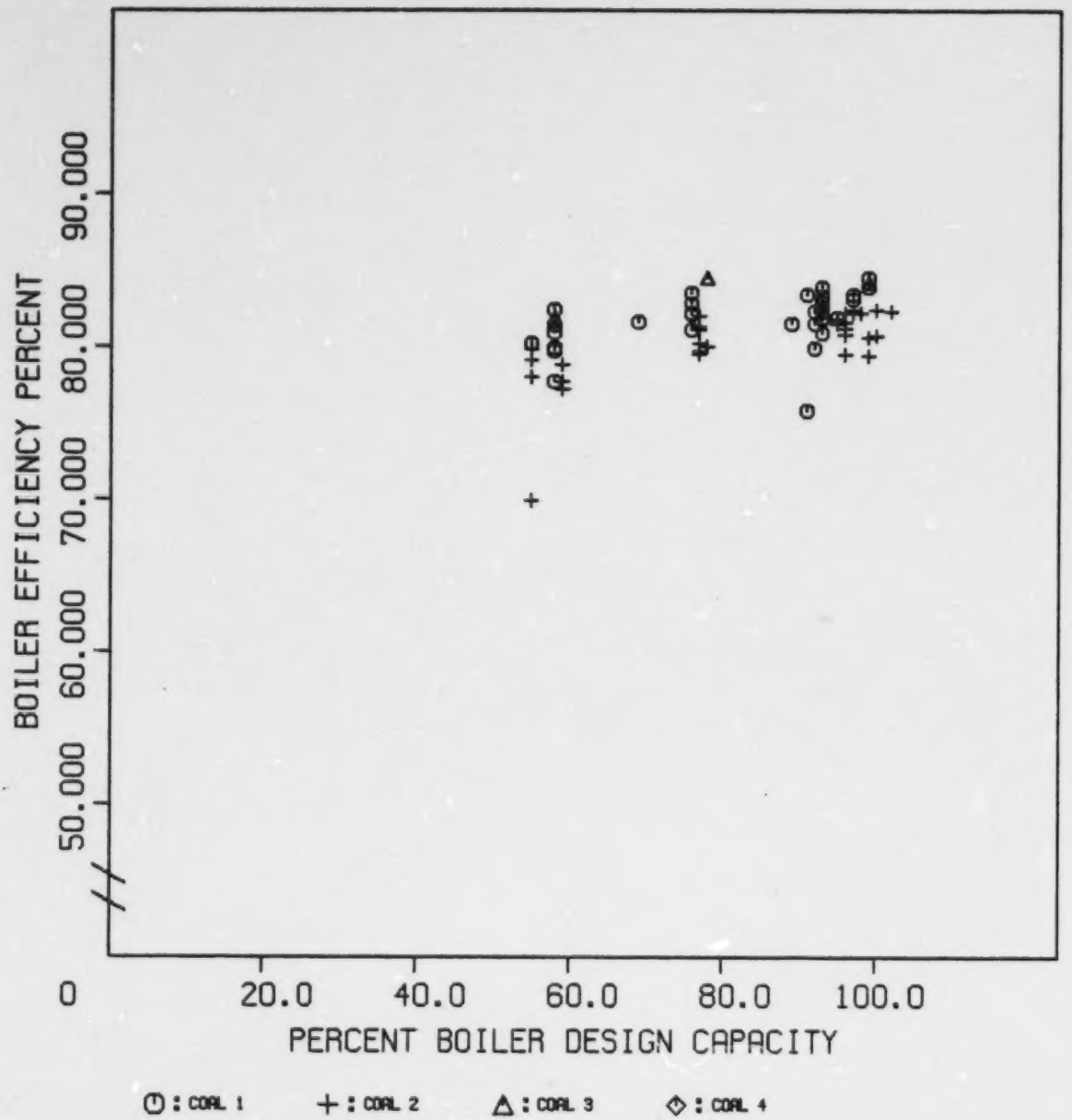


FIG. SITE C
BOILER EFFICIENCY VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

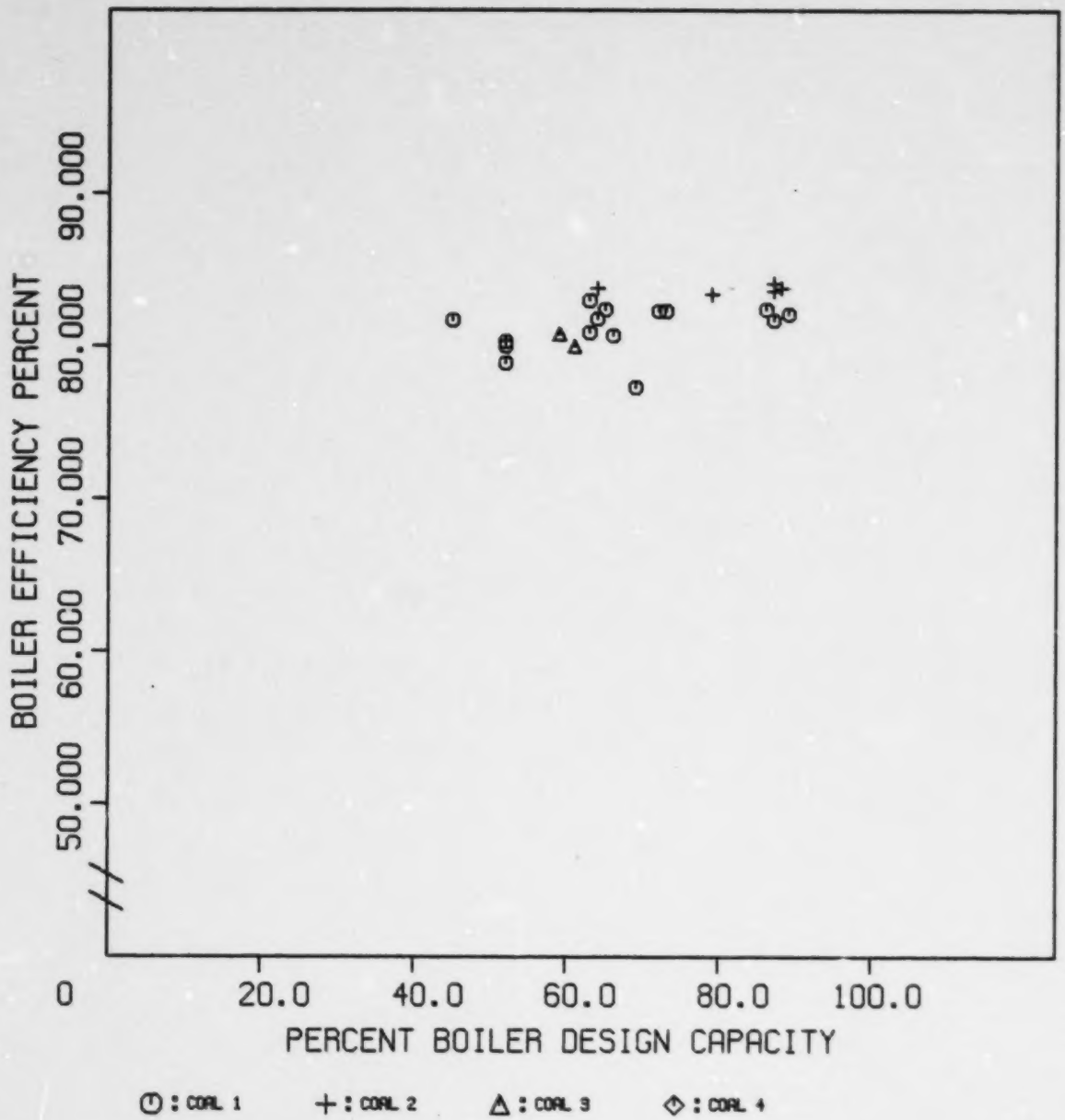


FIG. SITE D
BOILER EFFICIENCY VS. PERCENT BOILER DESIGN CAPACITY

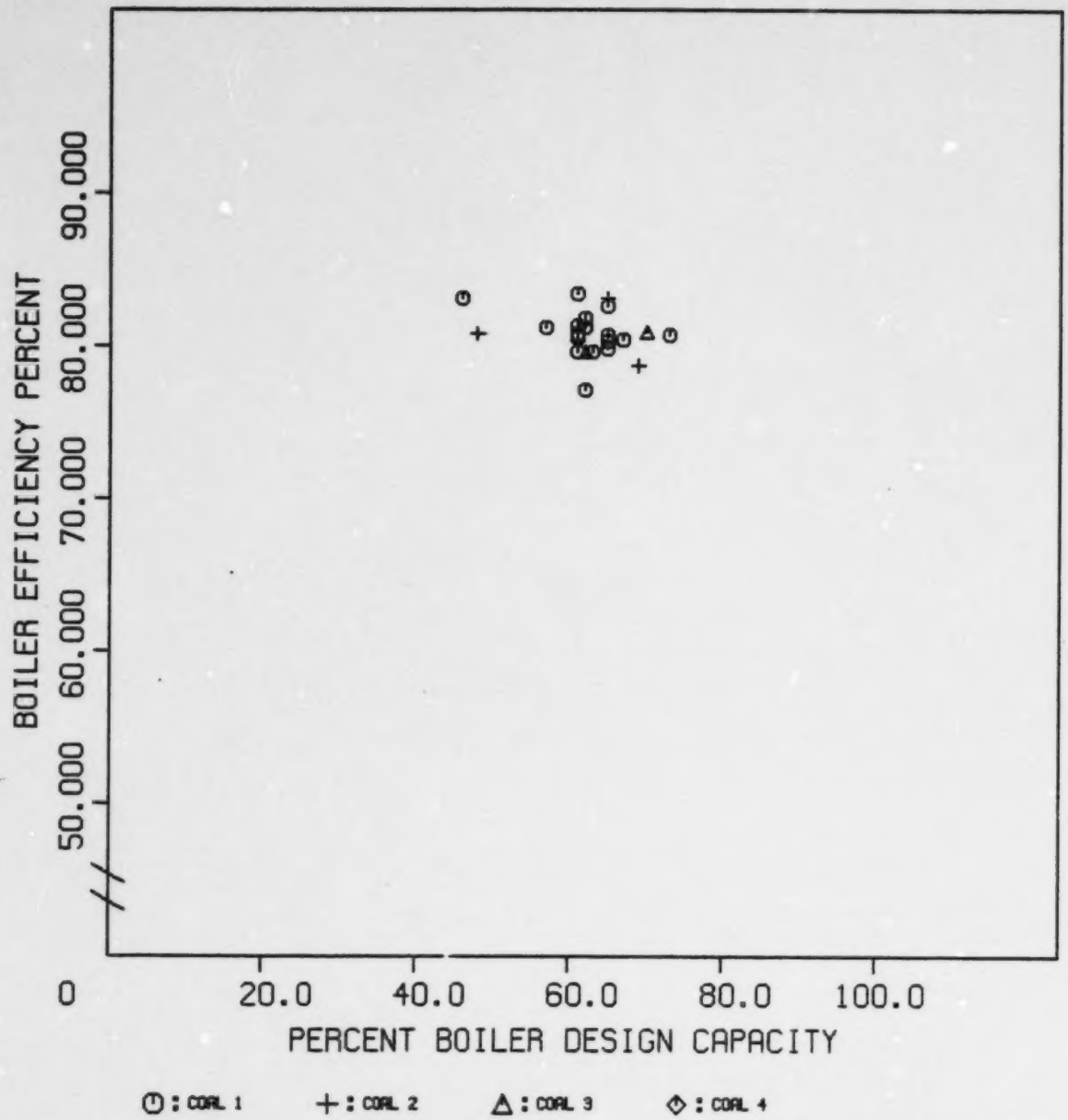


FIG. SITE E
BOILER EFFICIENCY VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

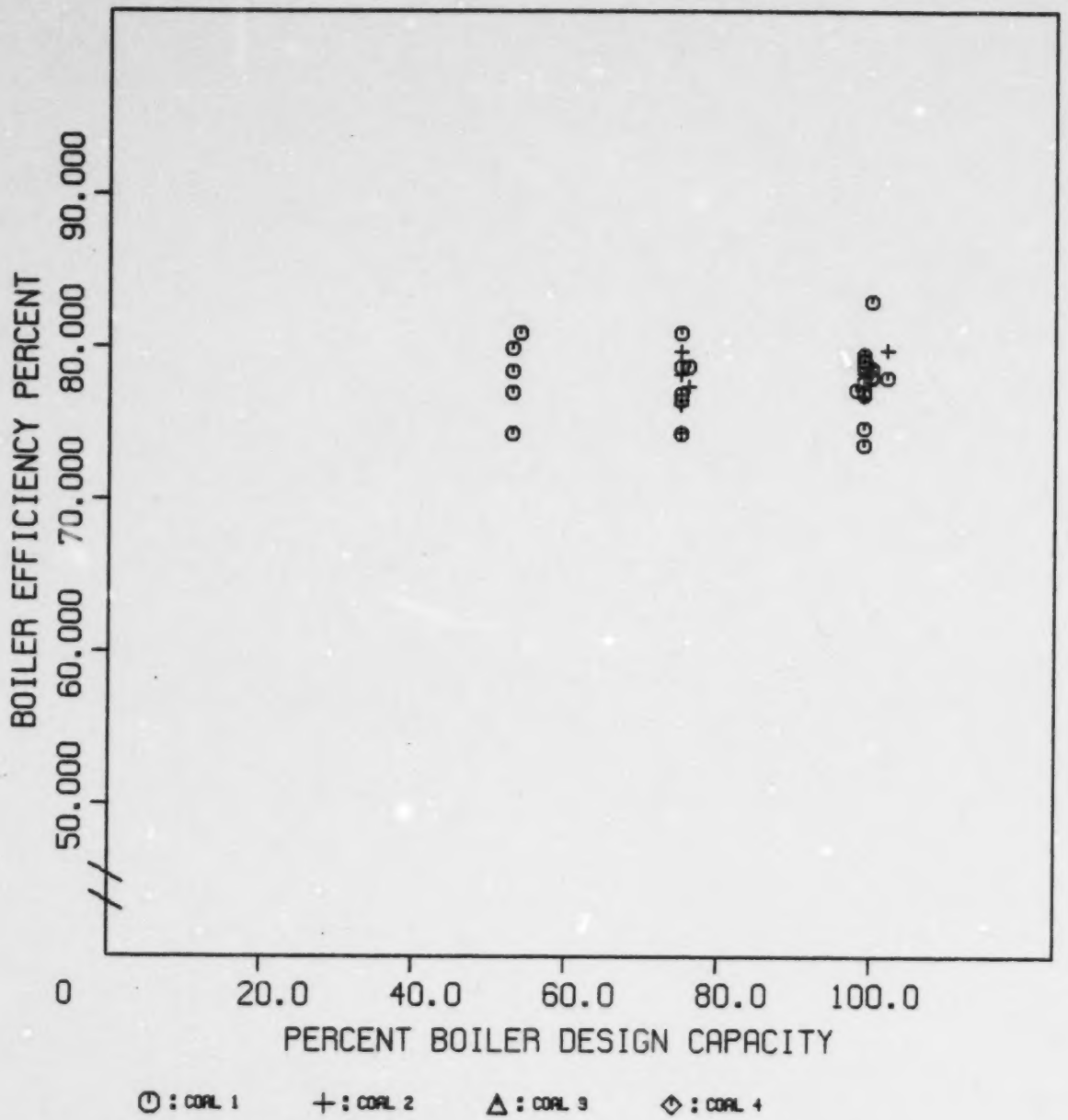


FIG. SITE F
BOILER EFFICIENCY VS. PERCENT BOILER DESIGN CAPACITY

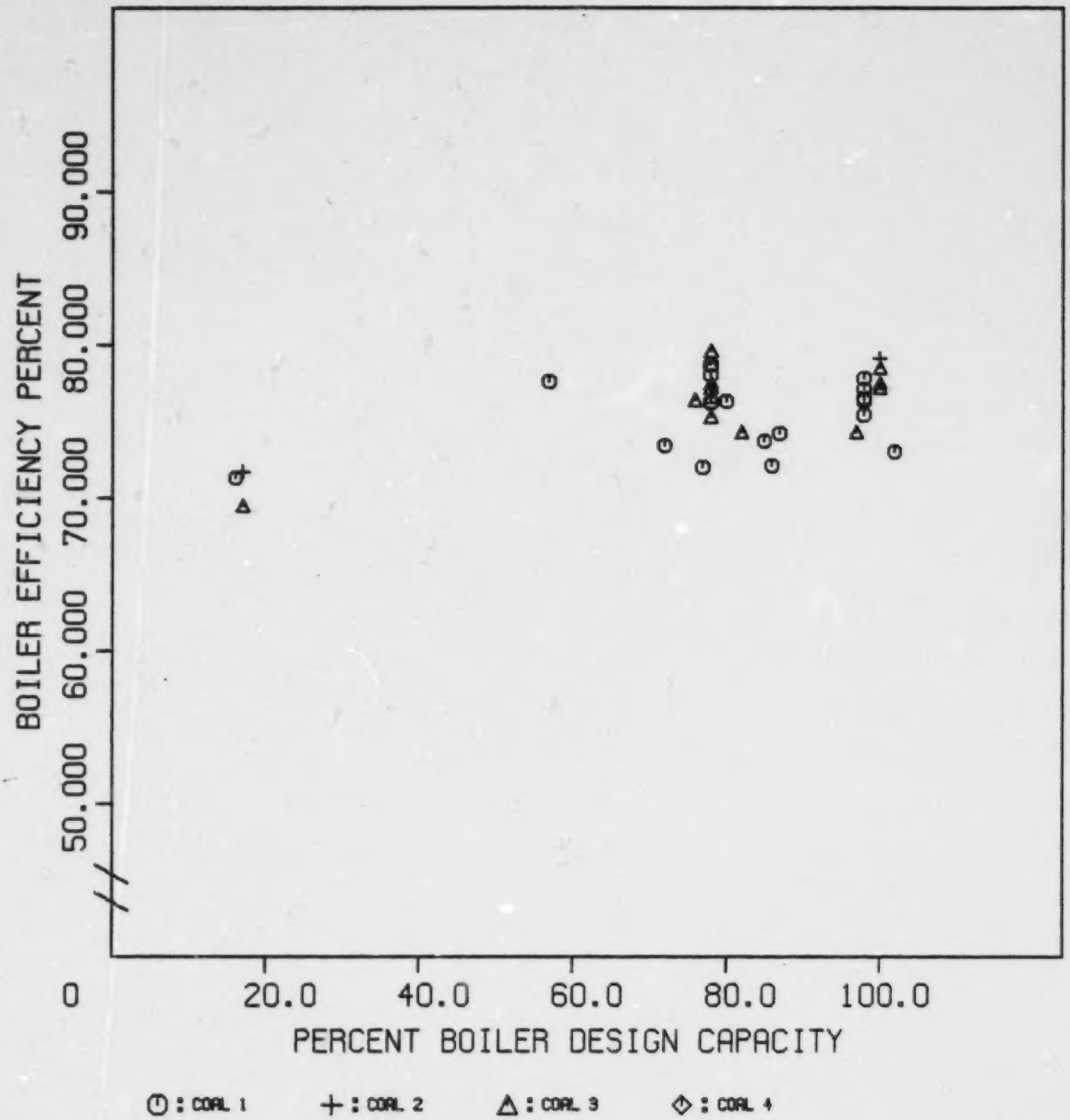


FIG. SITE G
BOILER EFFICIENCY VS. PERCENT BOILER DESIGN CAPACITY

KVB4-15900-554

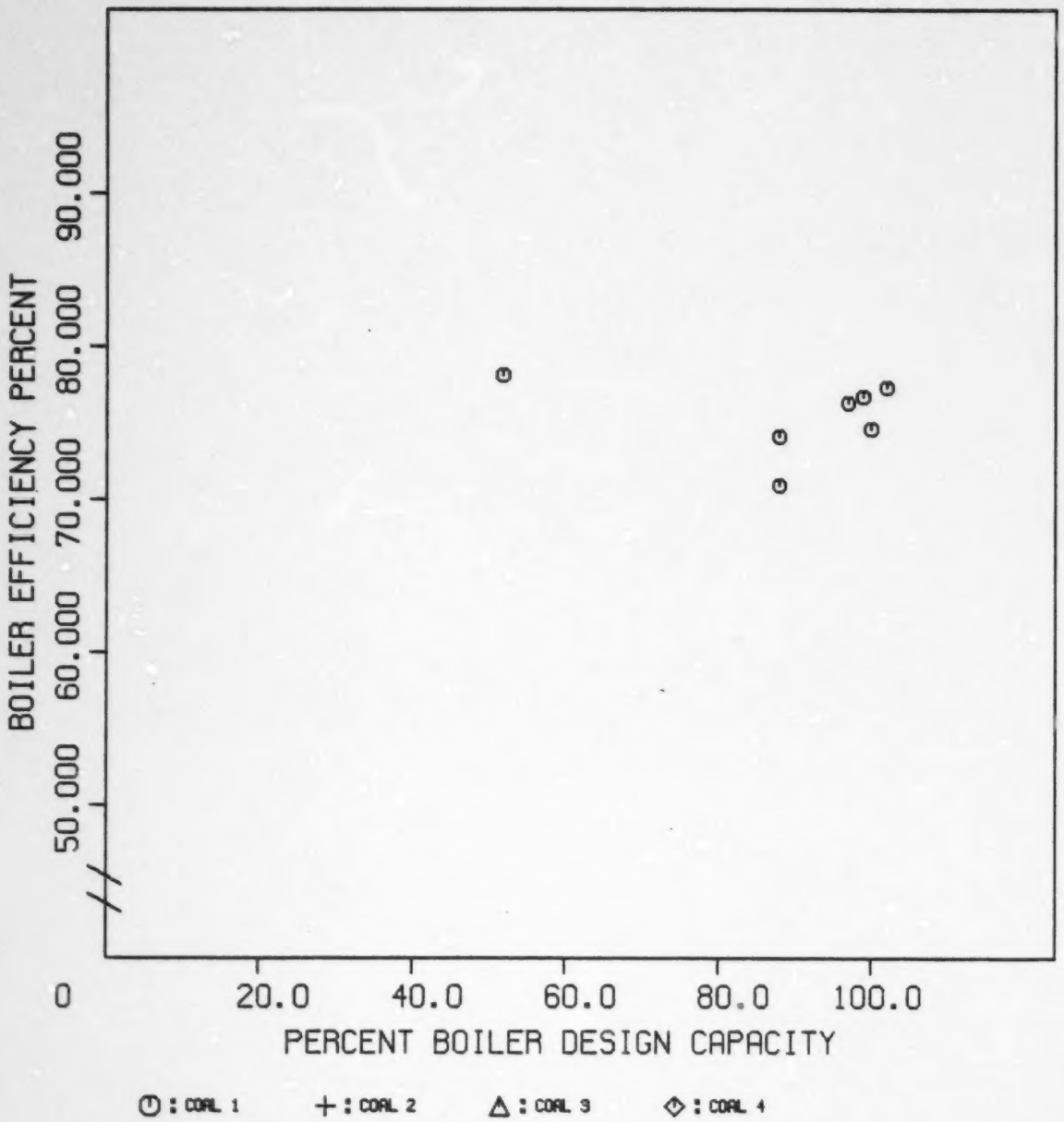


FIG. SITE H
BOILER EFFICIENCY VS. PERCENT BOILER DESIGN CAPACITY

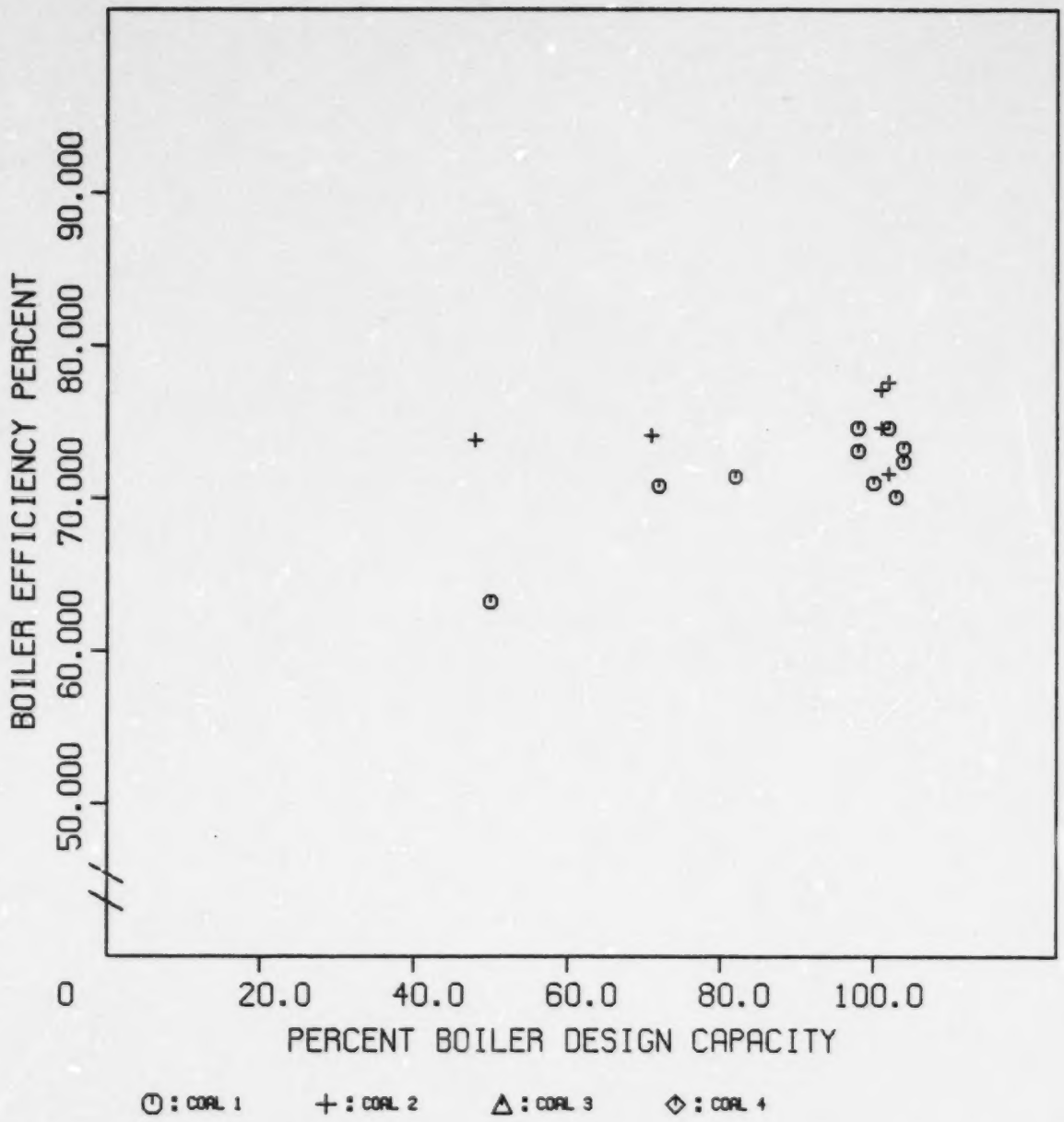


FIG. SITE I
BOILER EFFICIENCY VS. PERCENT BOILER DESIGN CAPACITY

KY84-15900-554

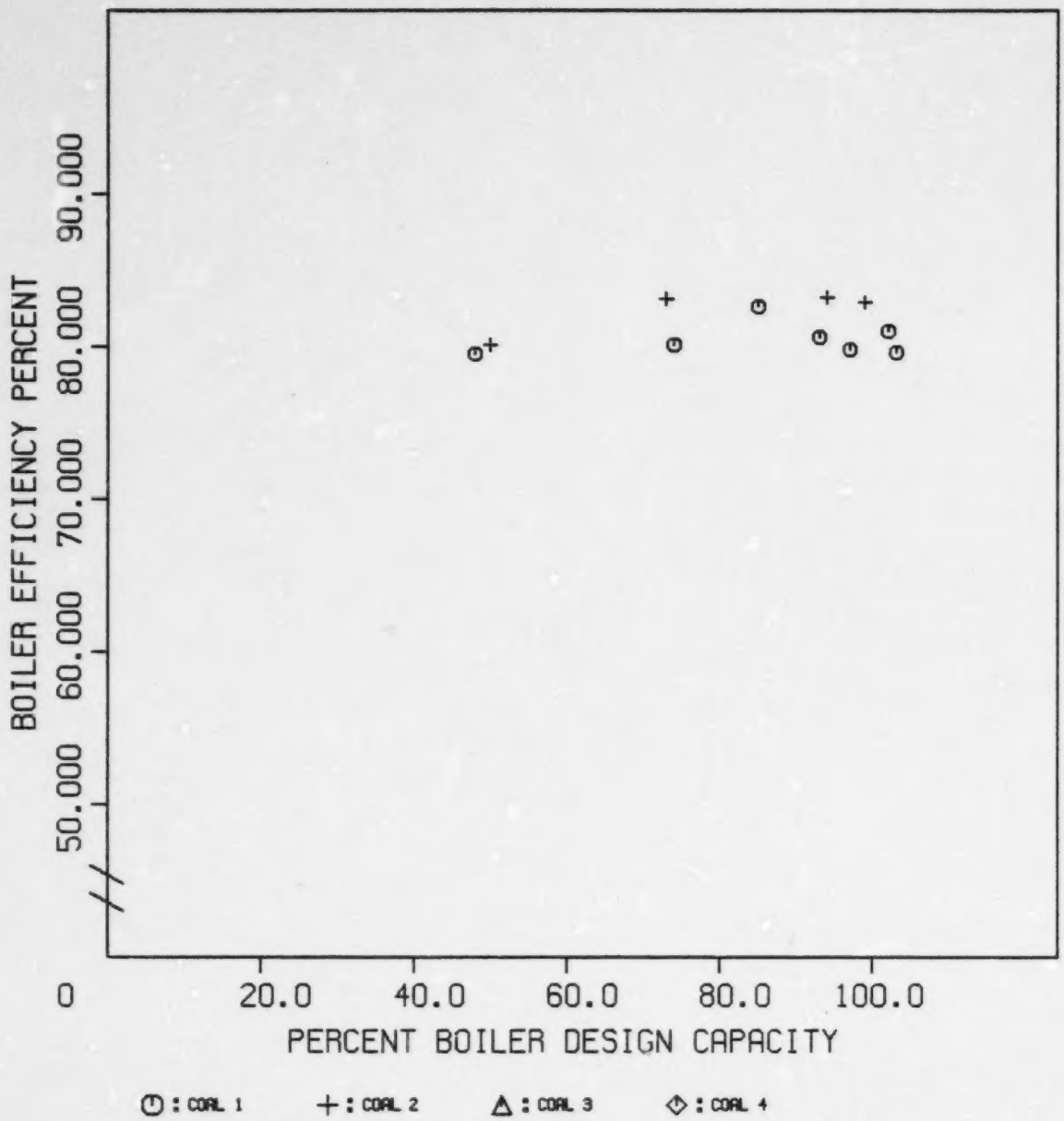


FIG. SITE J
BOILER EFFICIENCY VS. PERCENT BOILER DESIGN CAPACITY

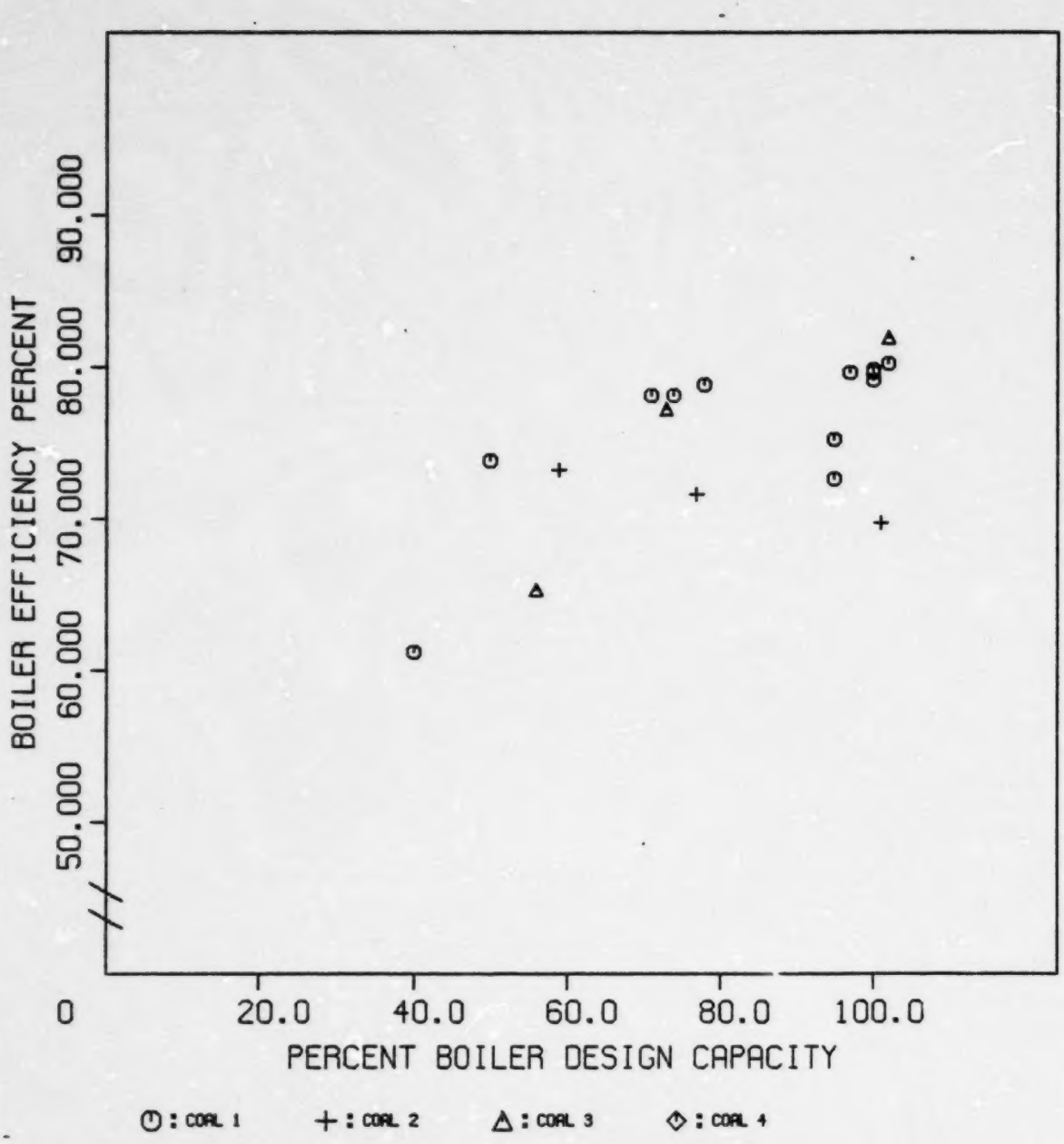


FIG. SITE K
BOILER EFFICIENCY VS. PERCENT BOILER DESIGN CAPACITY

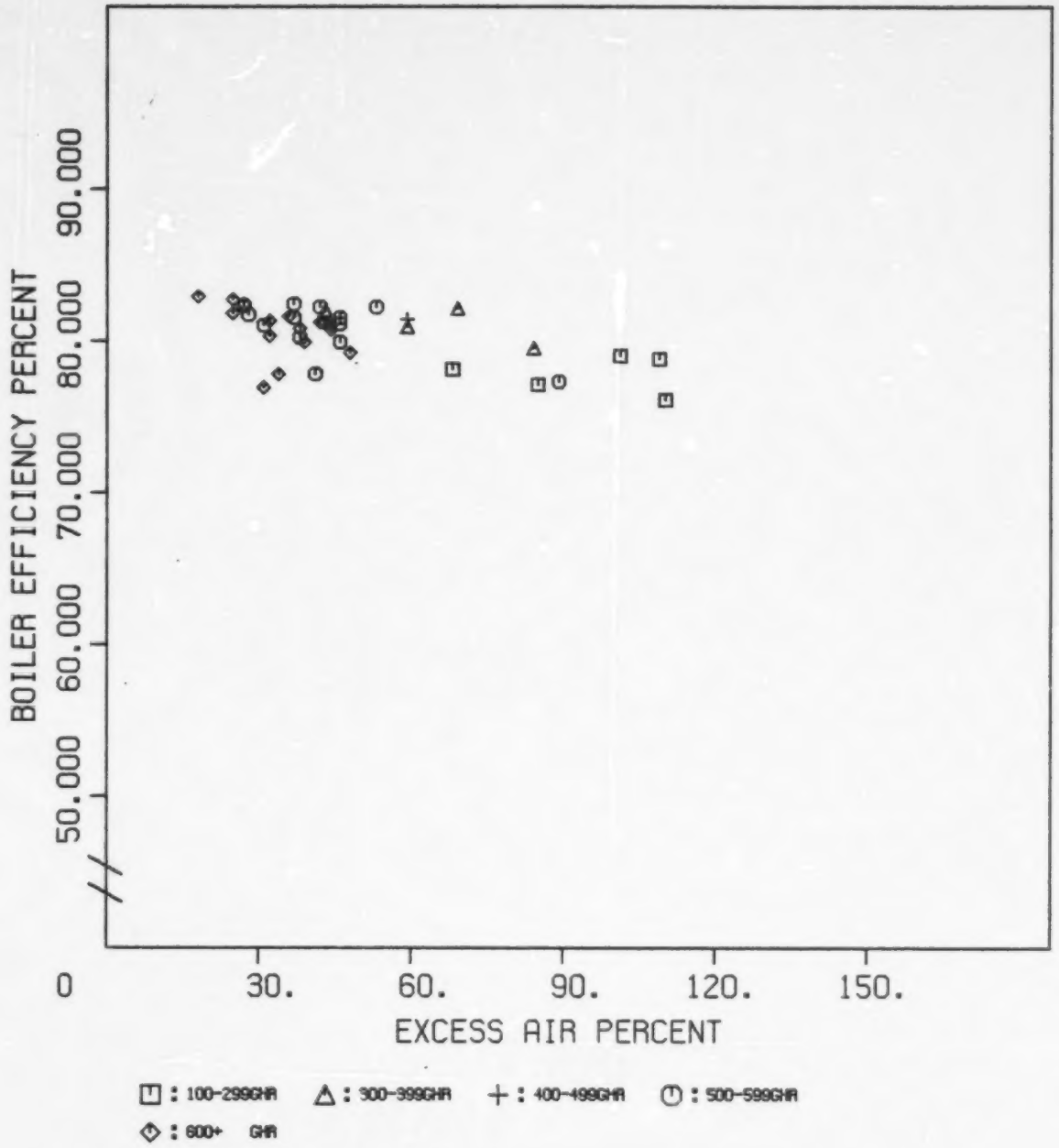


FIG. SITE B
BOILER EFFICIENCY VS. EXCESS AIR

KVB4-15800-554

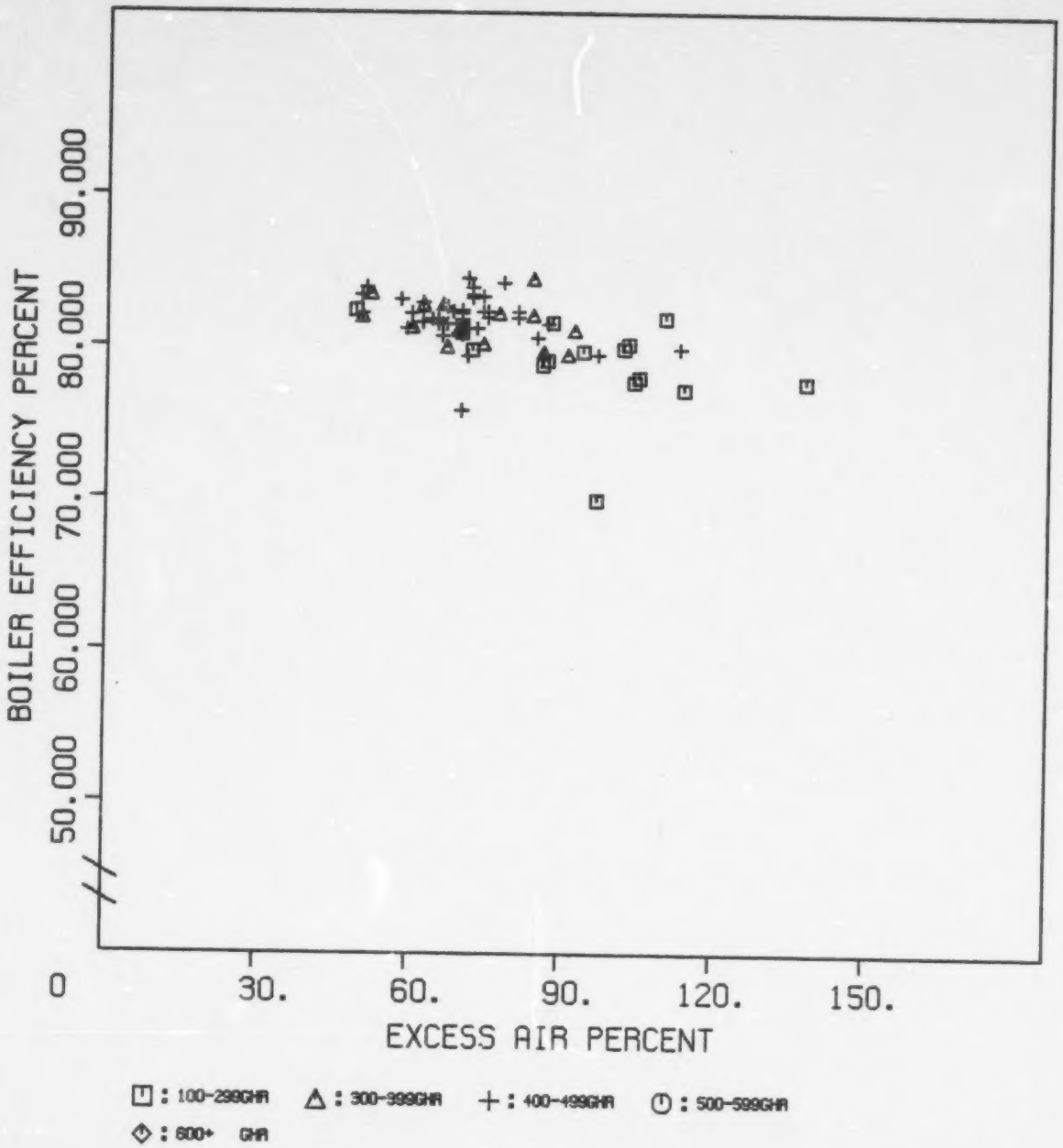


FIG. SITE C
BOILER EFFICIENCY VS. EXCESS AIR

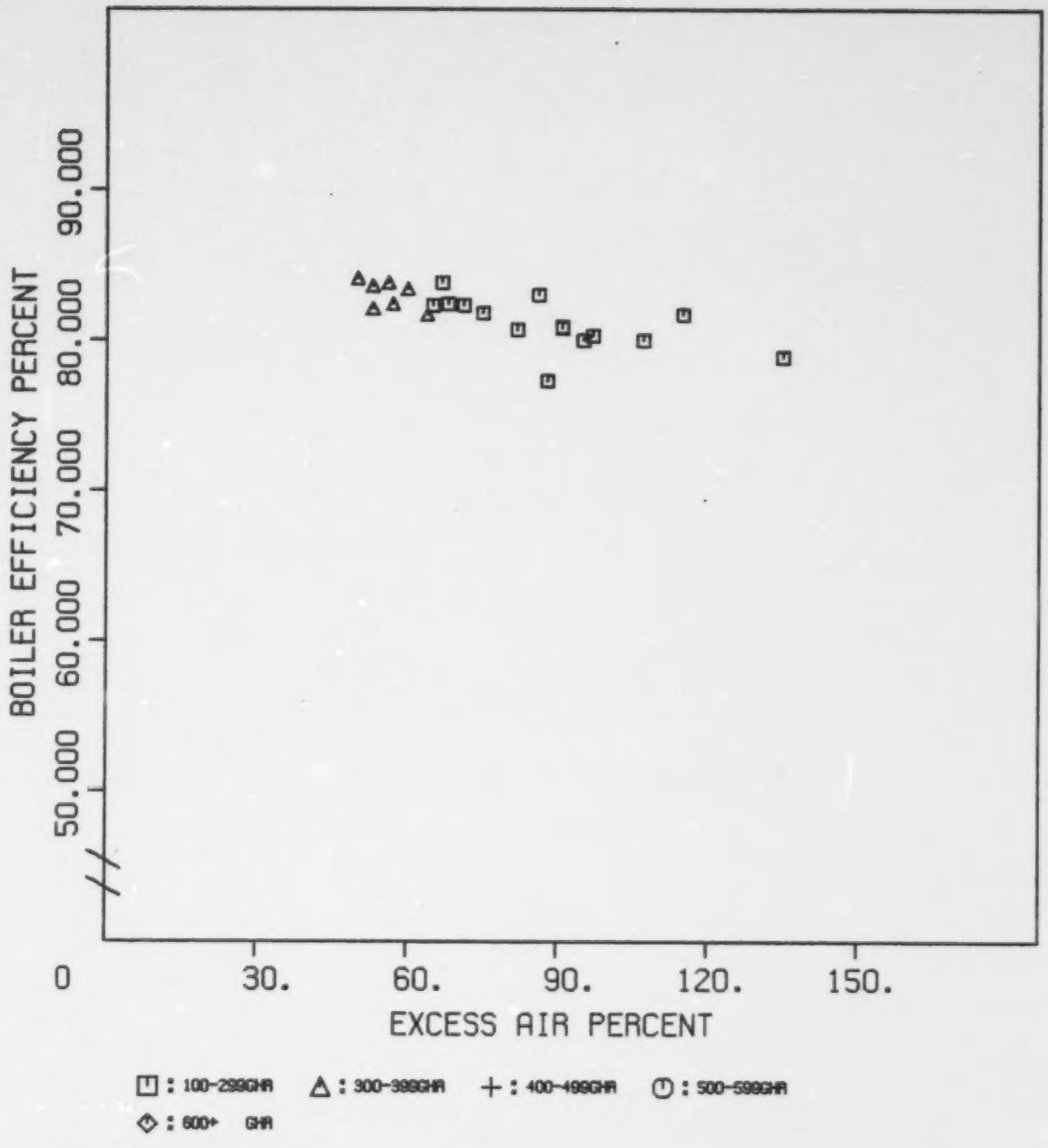


FIG. SITE D
BOILER EFFICIENCY VS. EXCESS AIR

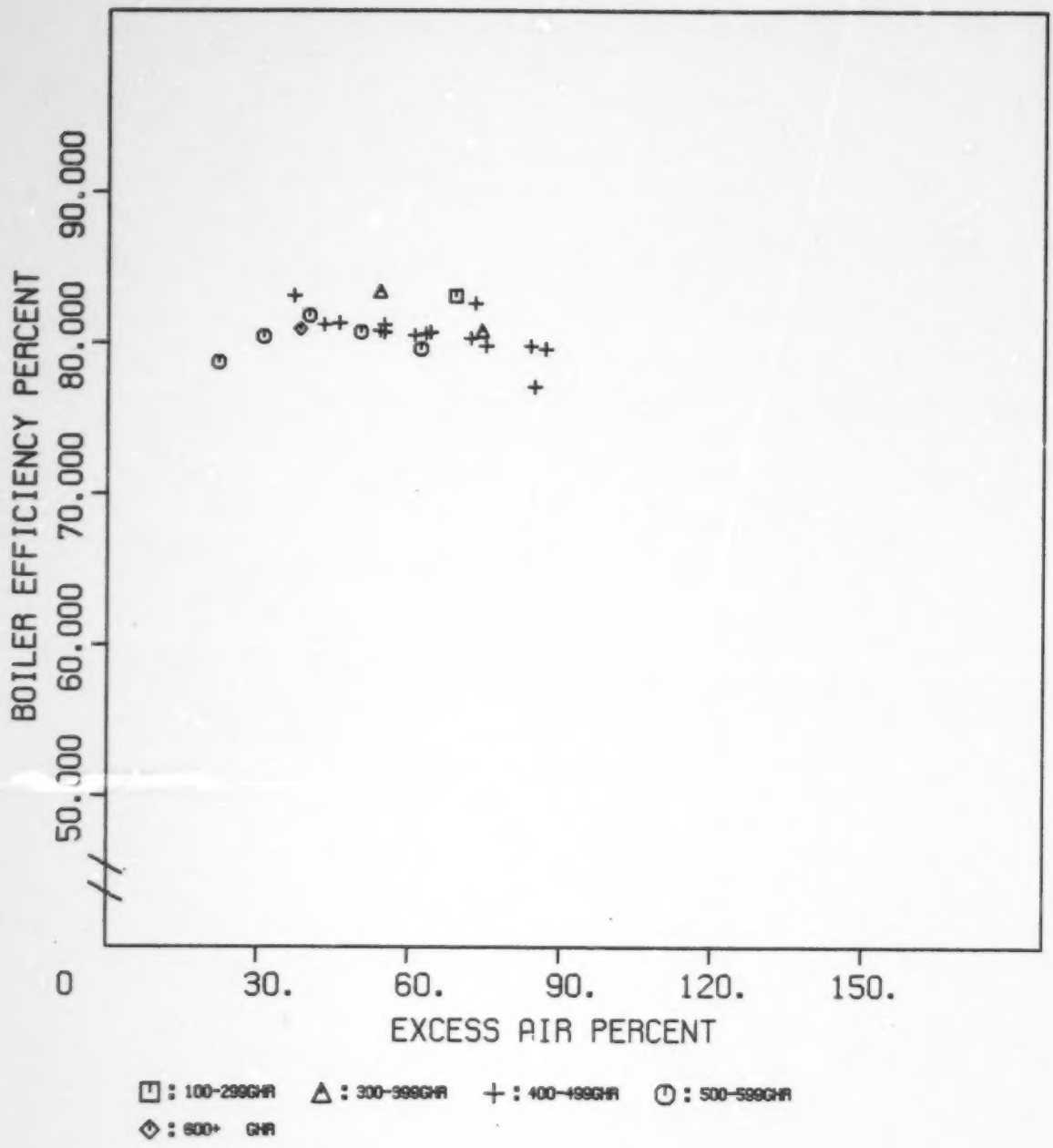


FIG. SITE E
BOILER EFFICIENCY VS. EXCESS AIR

KVB4-15900-554

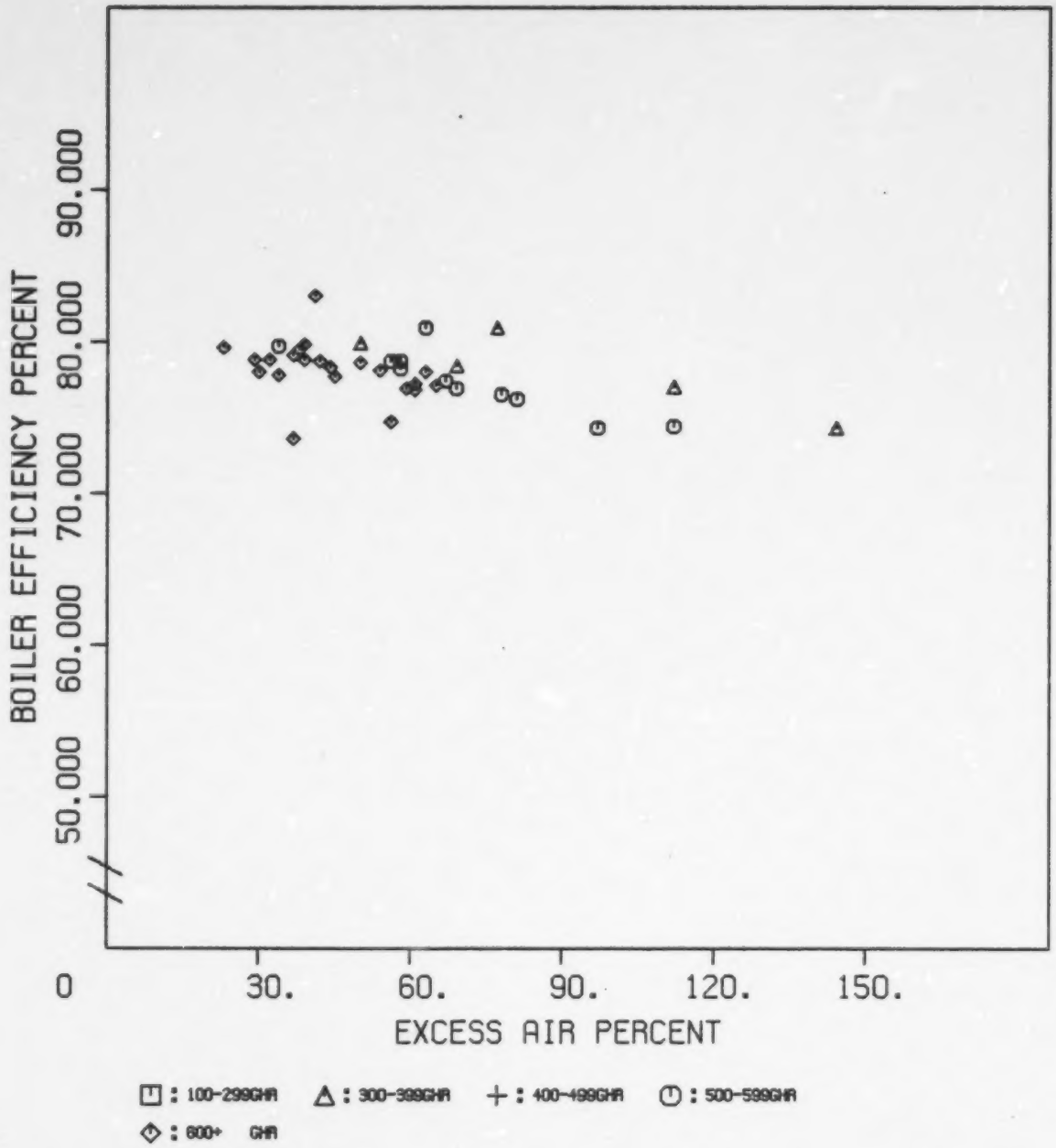


FIG. SITE F
BOILER EFFICIENCY VS. EXCESS AIR

KVB4-15900-554

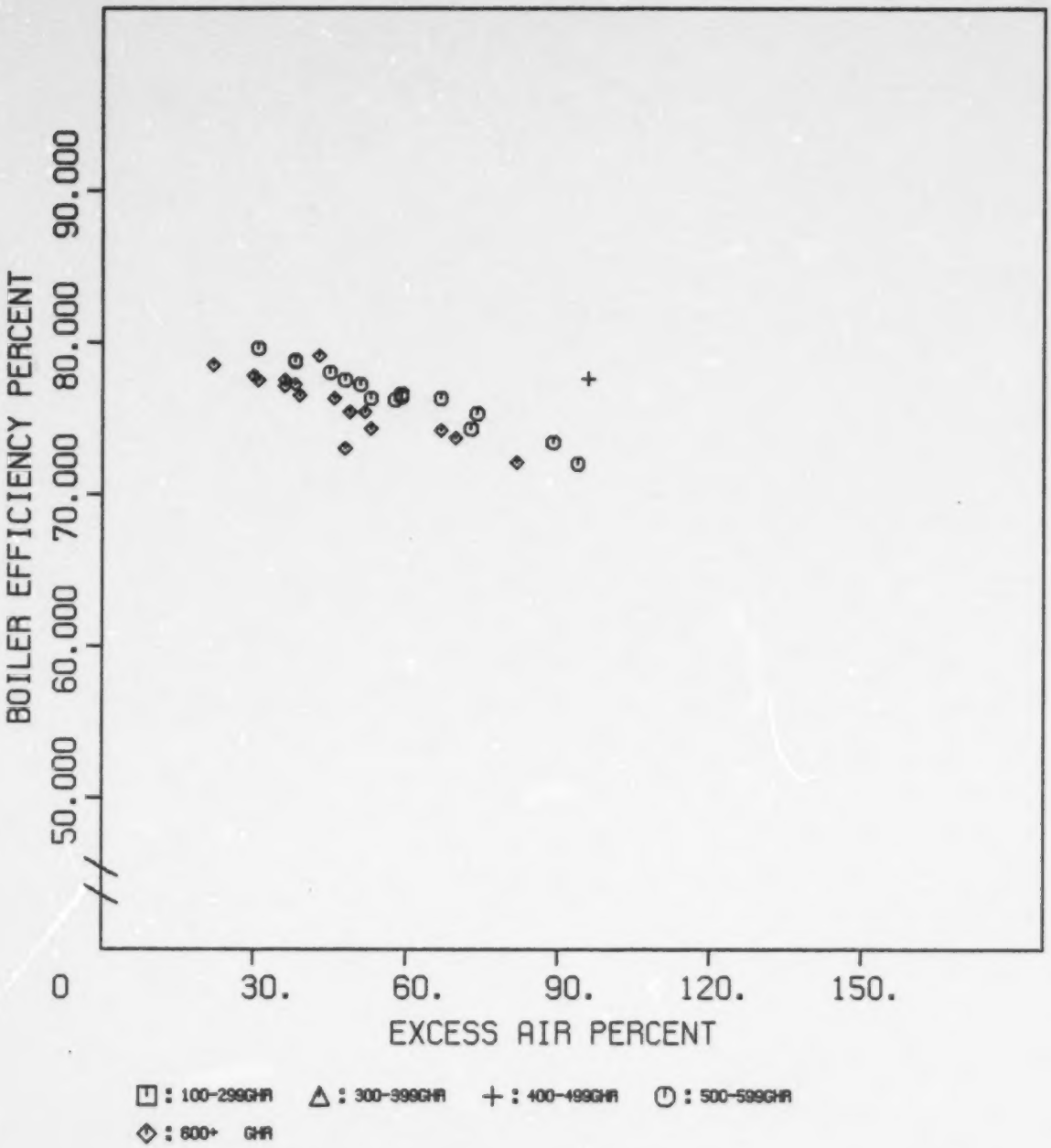


FIG. SITE G
BOILER EFFICIENCY VS. EXCESS AIR

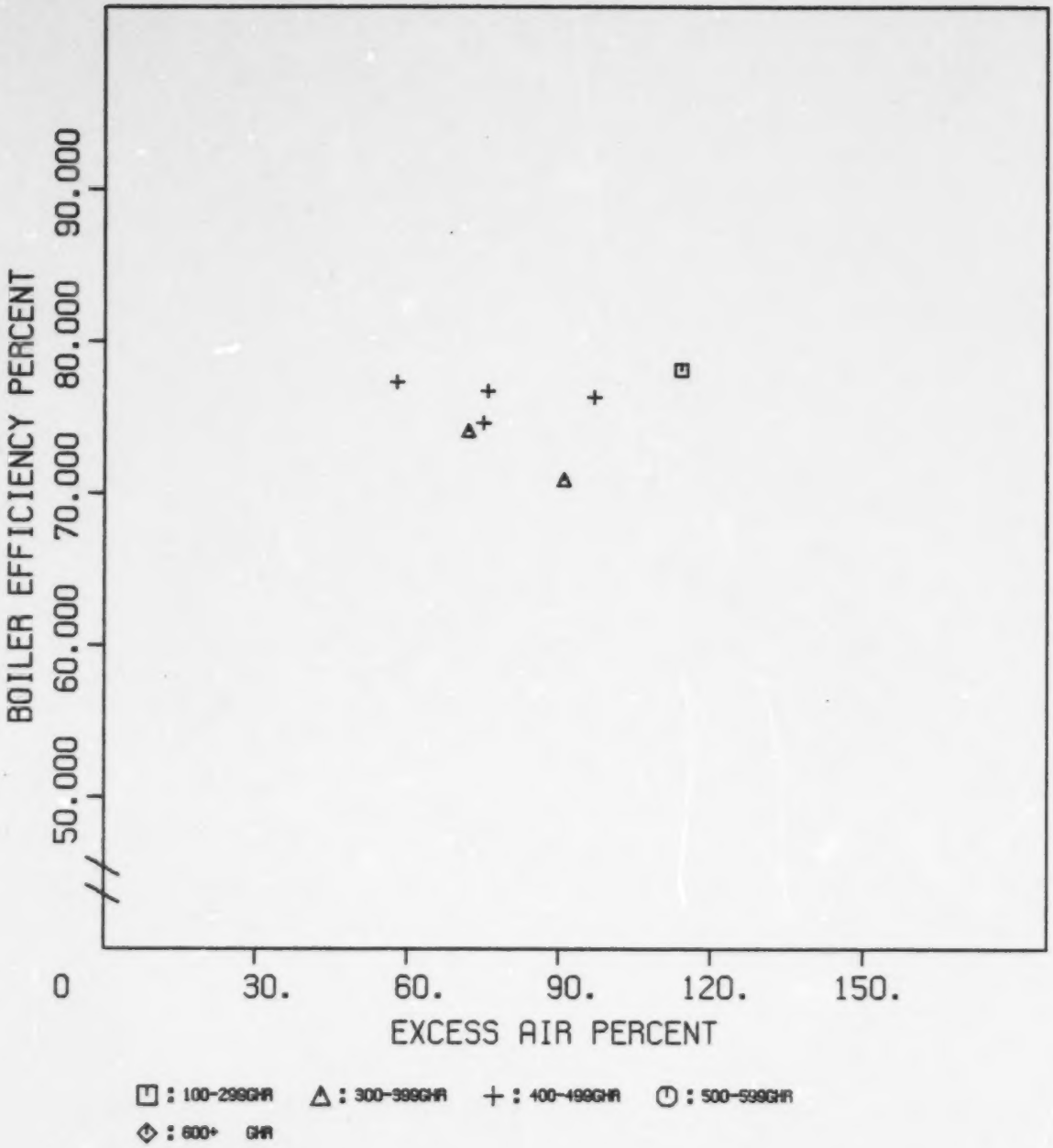


FIG. SITE H
BOILER EFFICIENCY VS. EXCESS AIR

KVB4-15800-554

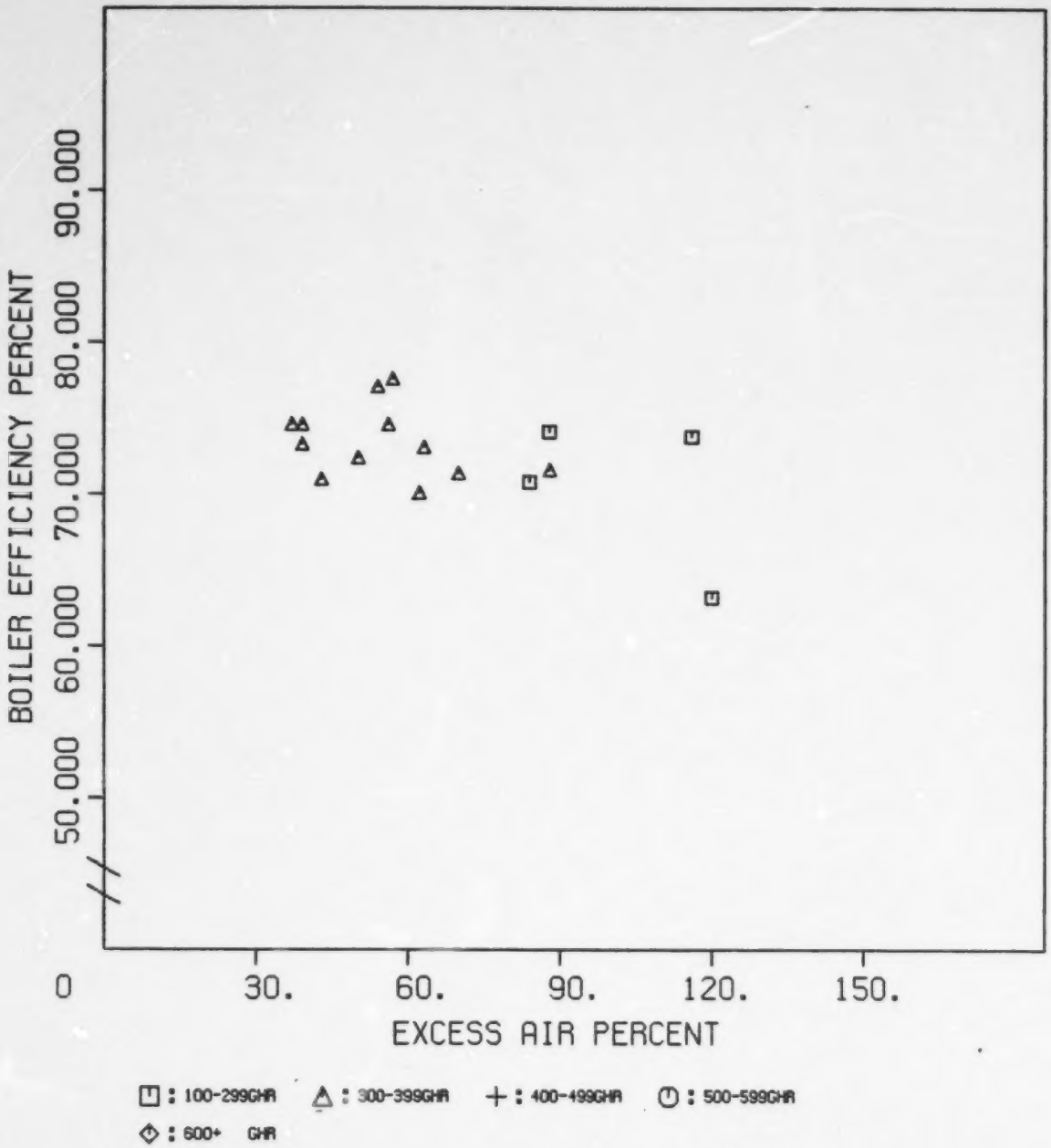


FIG. SITE I
BOILER EFFICIENCY VS. EXCESS AIR

KVB4-15900-554

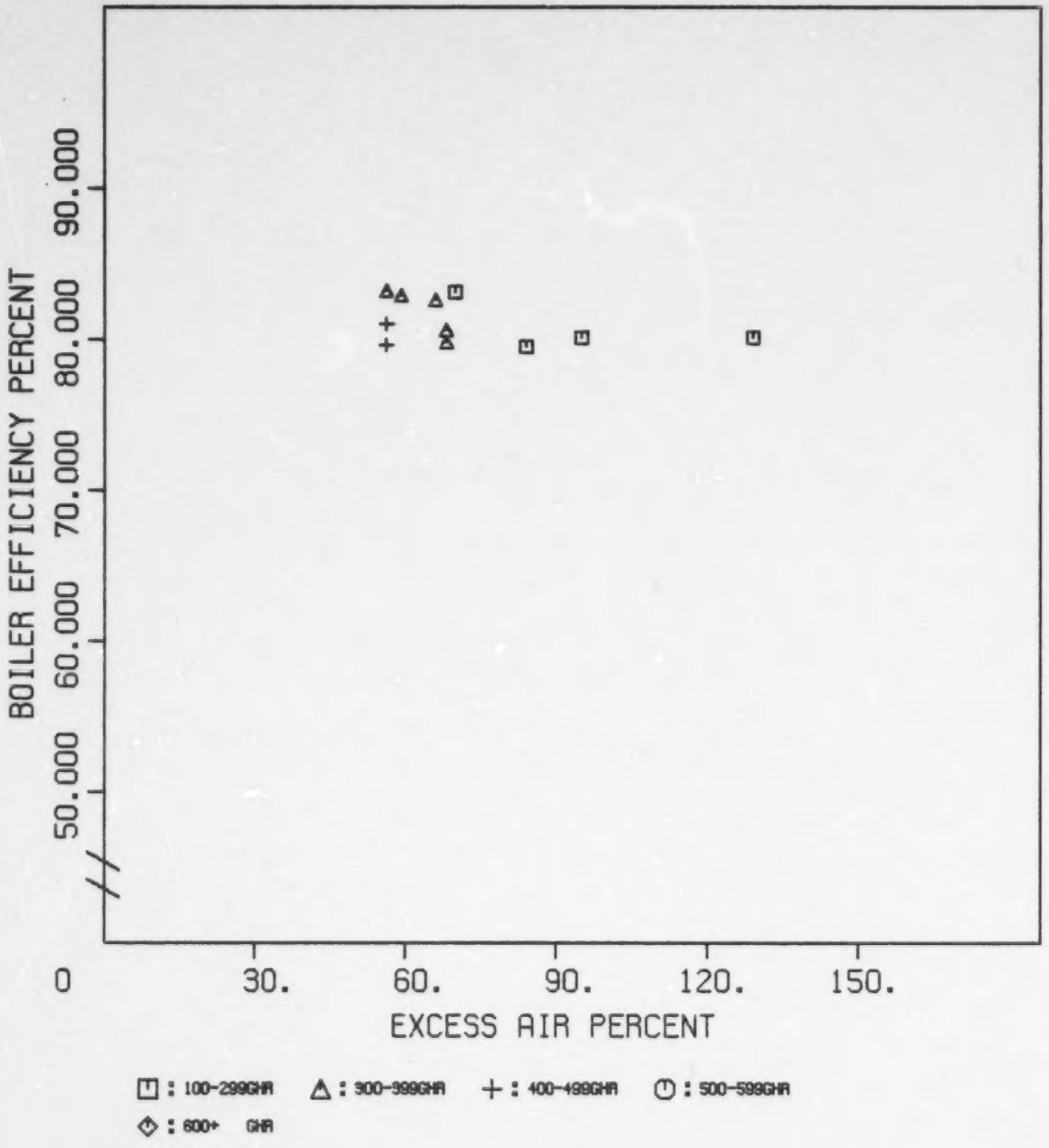


FIG. SITE J
BOILER EFFICIENCY VS. EXCESS AIR

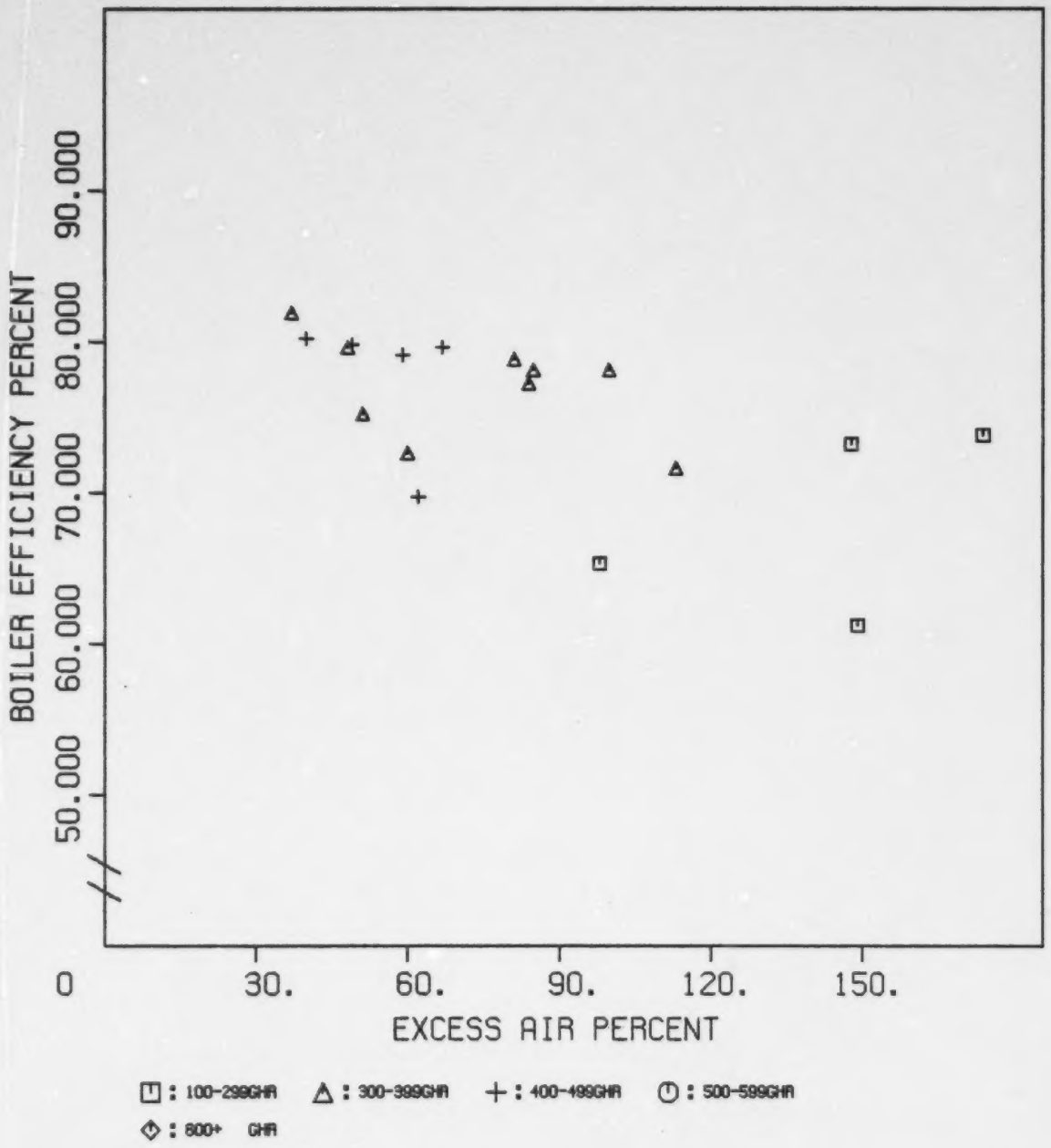


FIG. SITE K
BOILER EFFICIENCY VS. EXCESS AIR

KVB4-15900-554

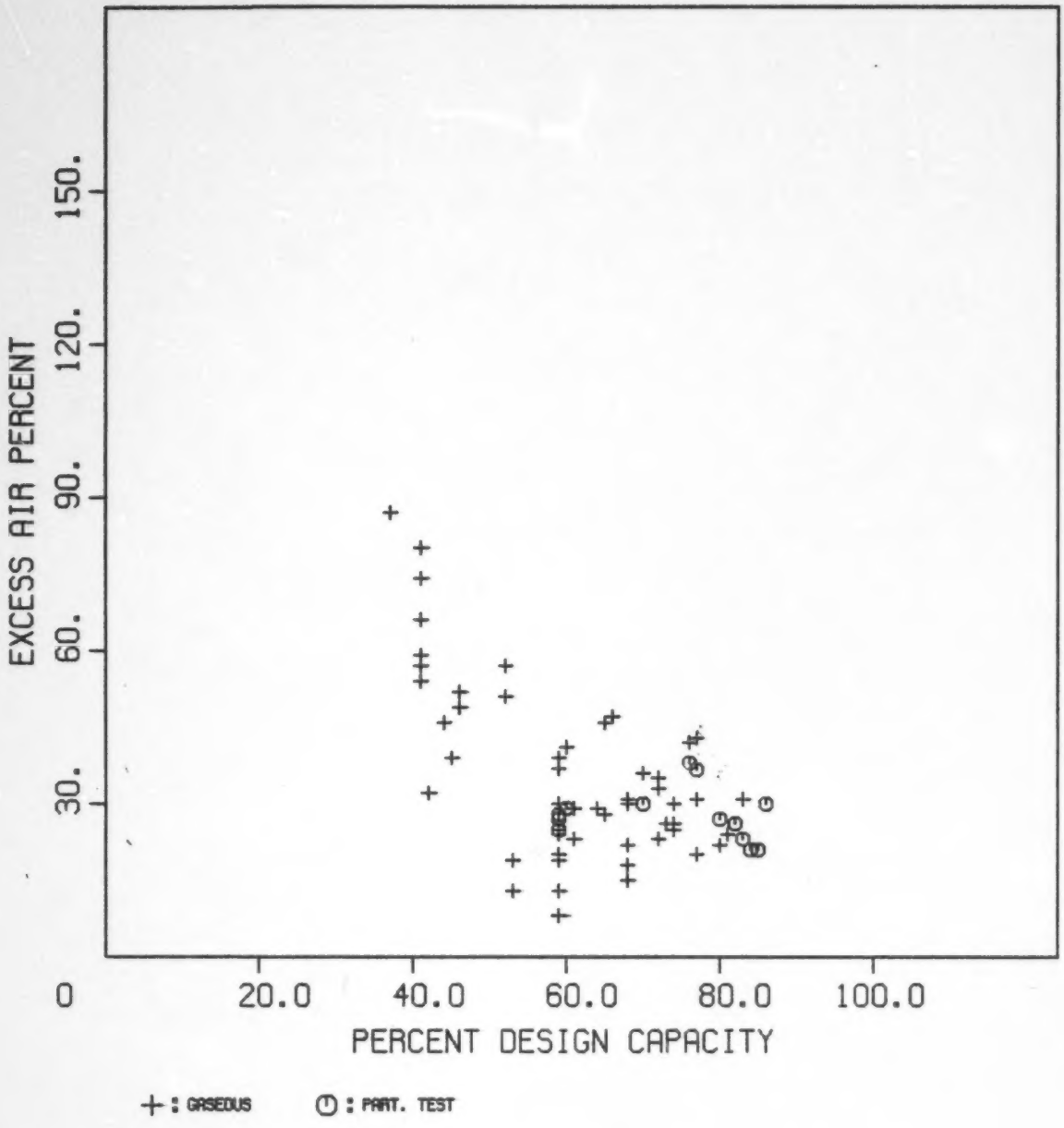


FIG. SITE A
EXCESS AIR VS. PERCENT DESIGN CAPACITY

KVB4-15910-560

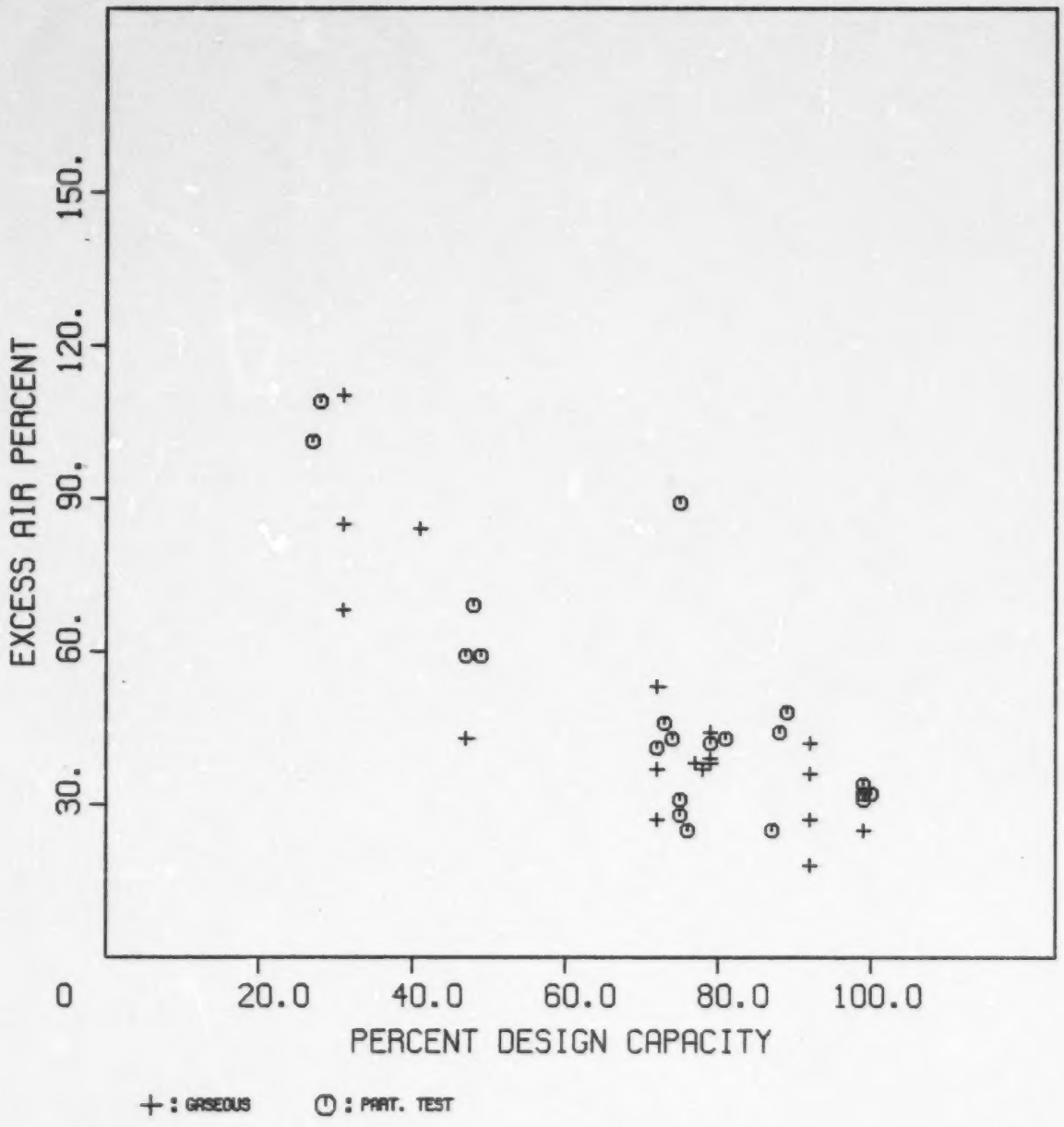


FIG. SITE B
EXCESS AIR VS. PERCENT DESIGN CAPACITY

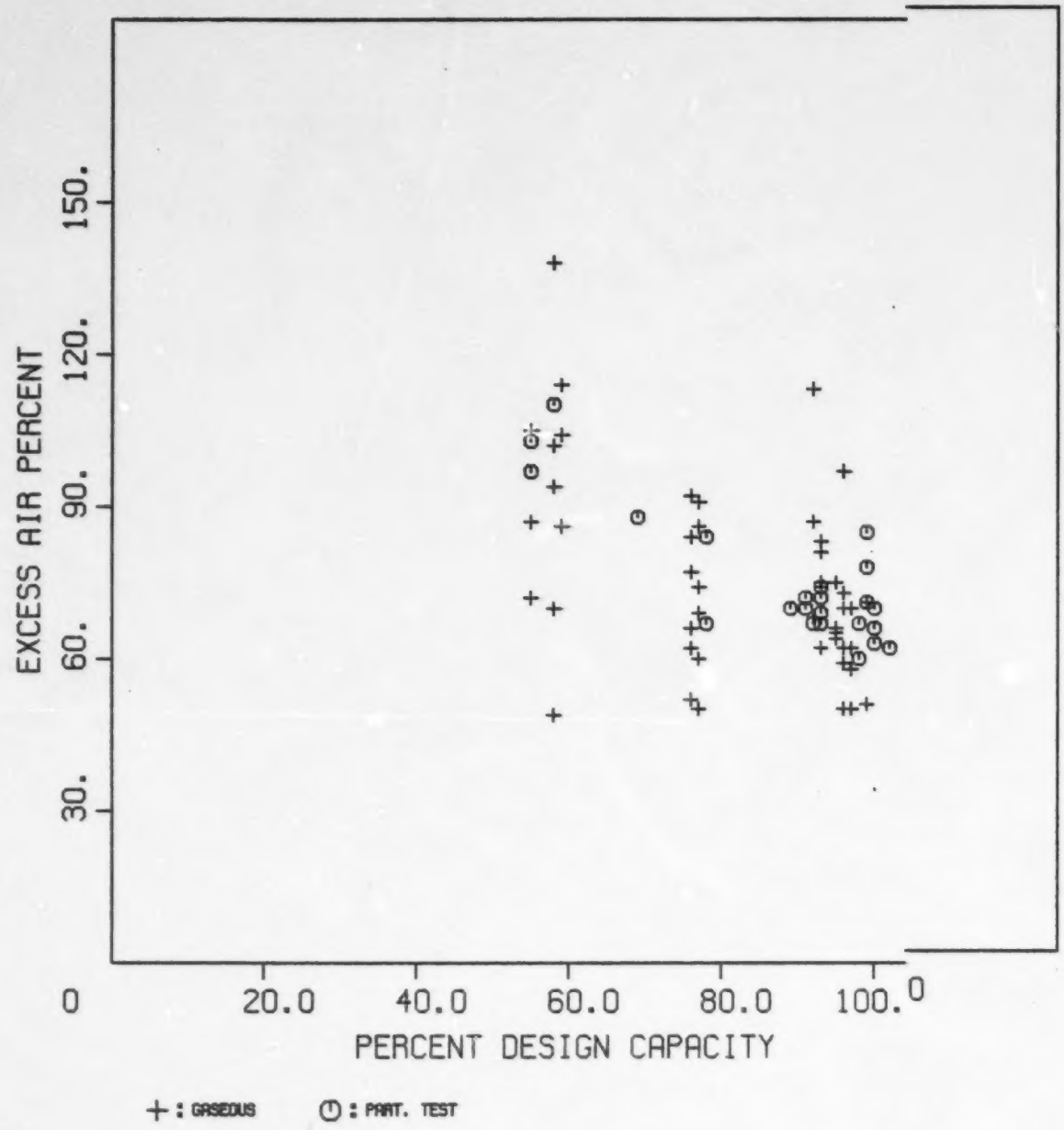


FIG. SITE C
EXCESS AIR VS. PERCENT DESIGN CAPACITY

KYB4-15910-560

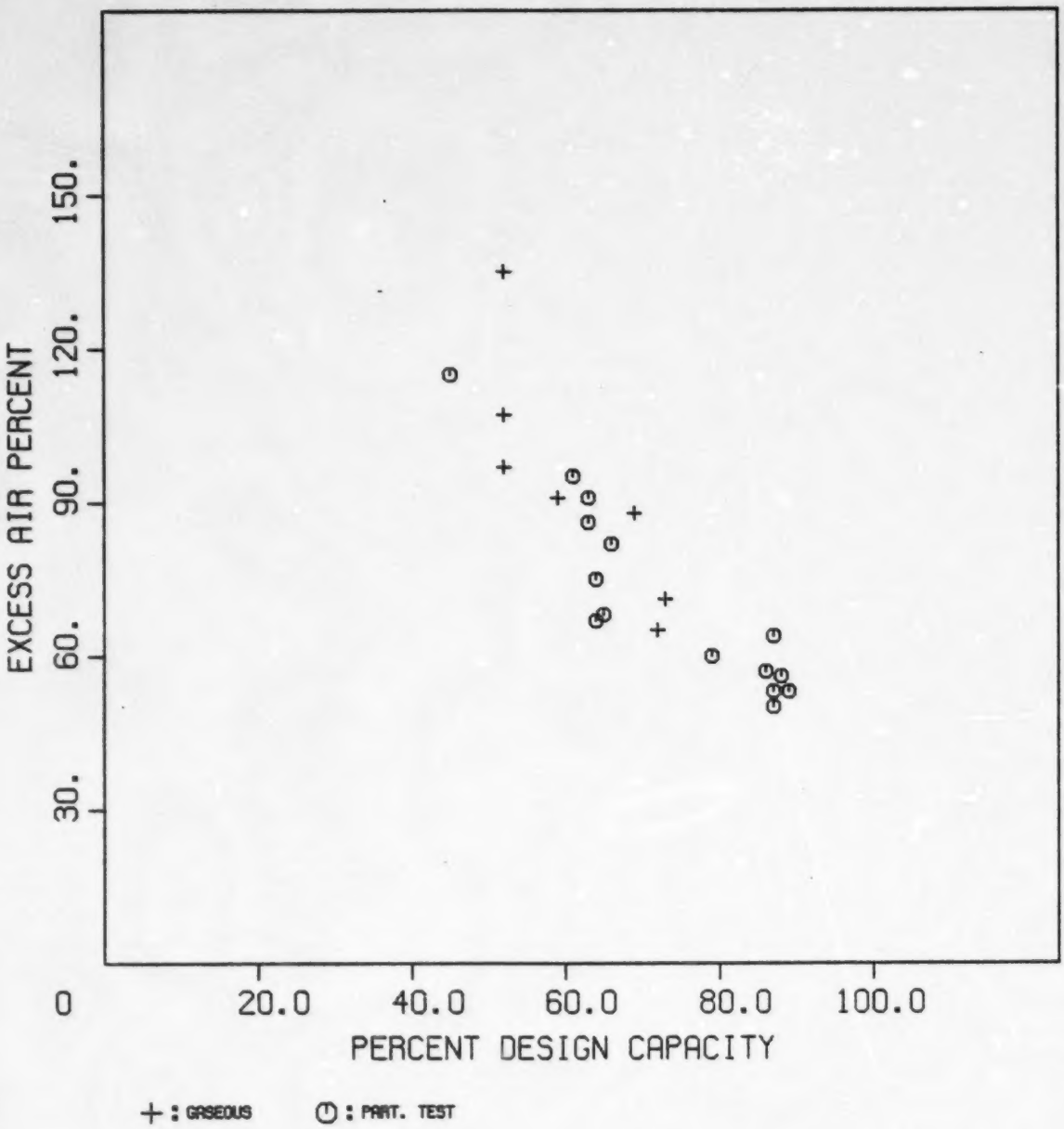


FIG. SITE D
EXCESS AIR VS. PERCENT DESIGN CAPACITY

KYB4-15910-560

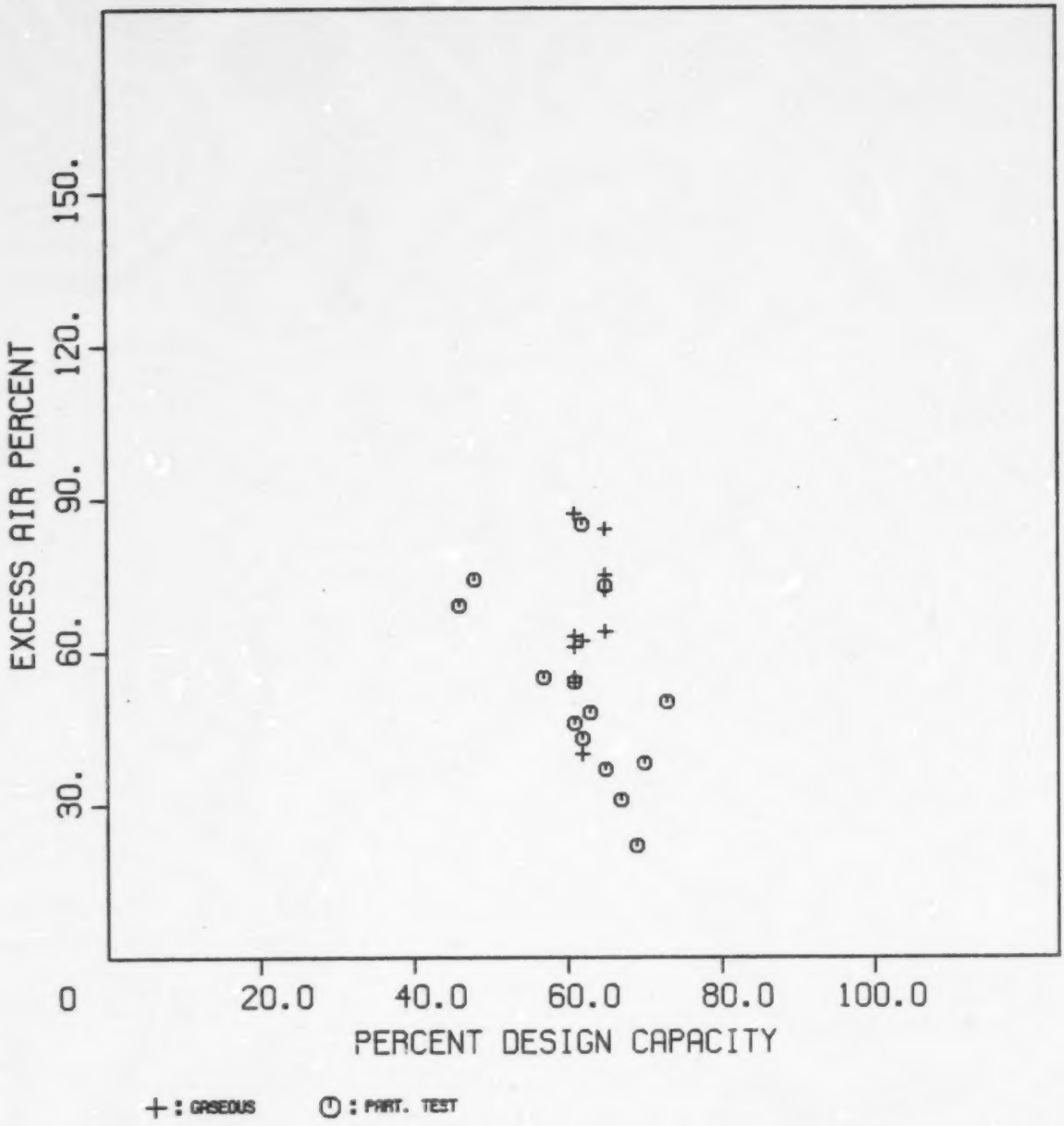


FIG. SITE E
EXCESS AIR VS. PERCENT DESIGN CAPACITY

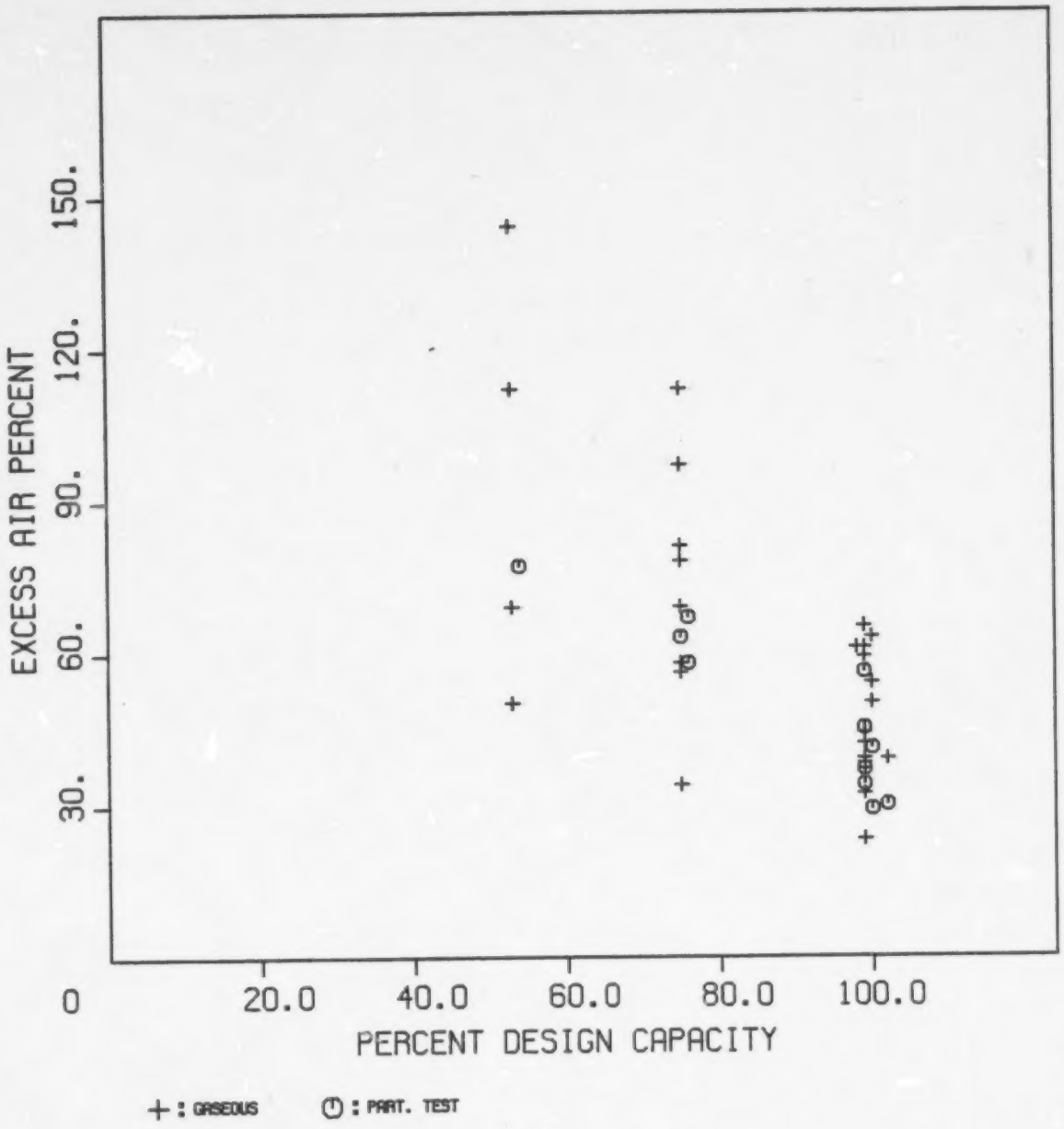


FIG. SITE F
EXCESS AIR VS. PERCENT DESIGN CAPACITY

KVB4-15810-560

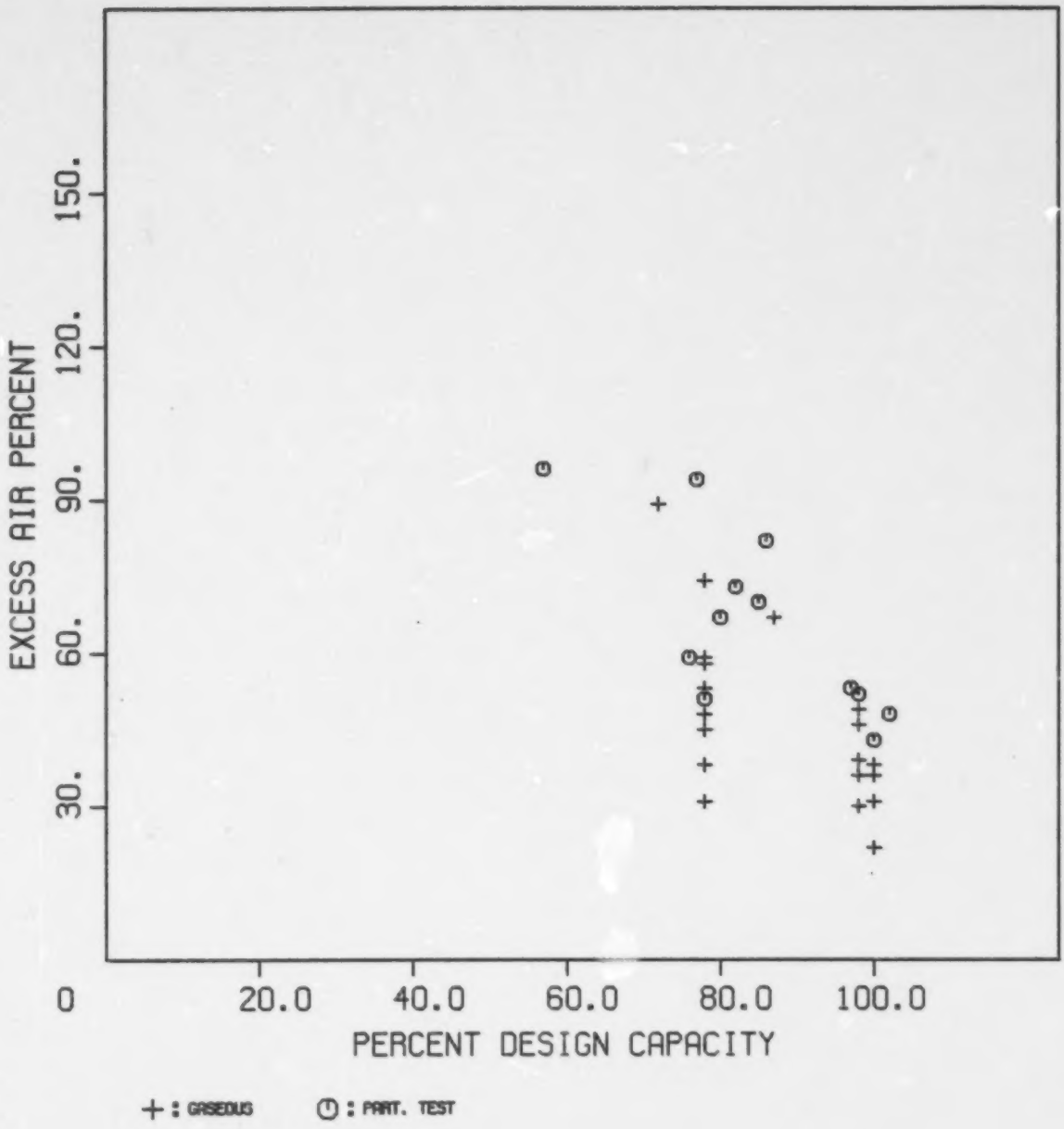


FIG. SITE G
EXCESS AIR VS. PERCENT DESIGN CAPACITY

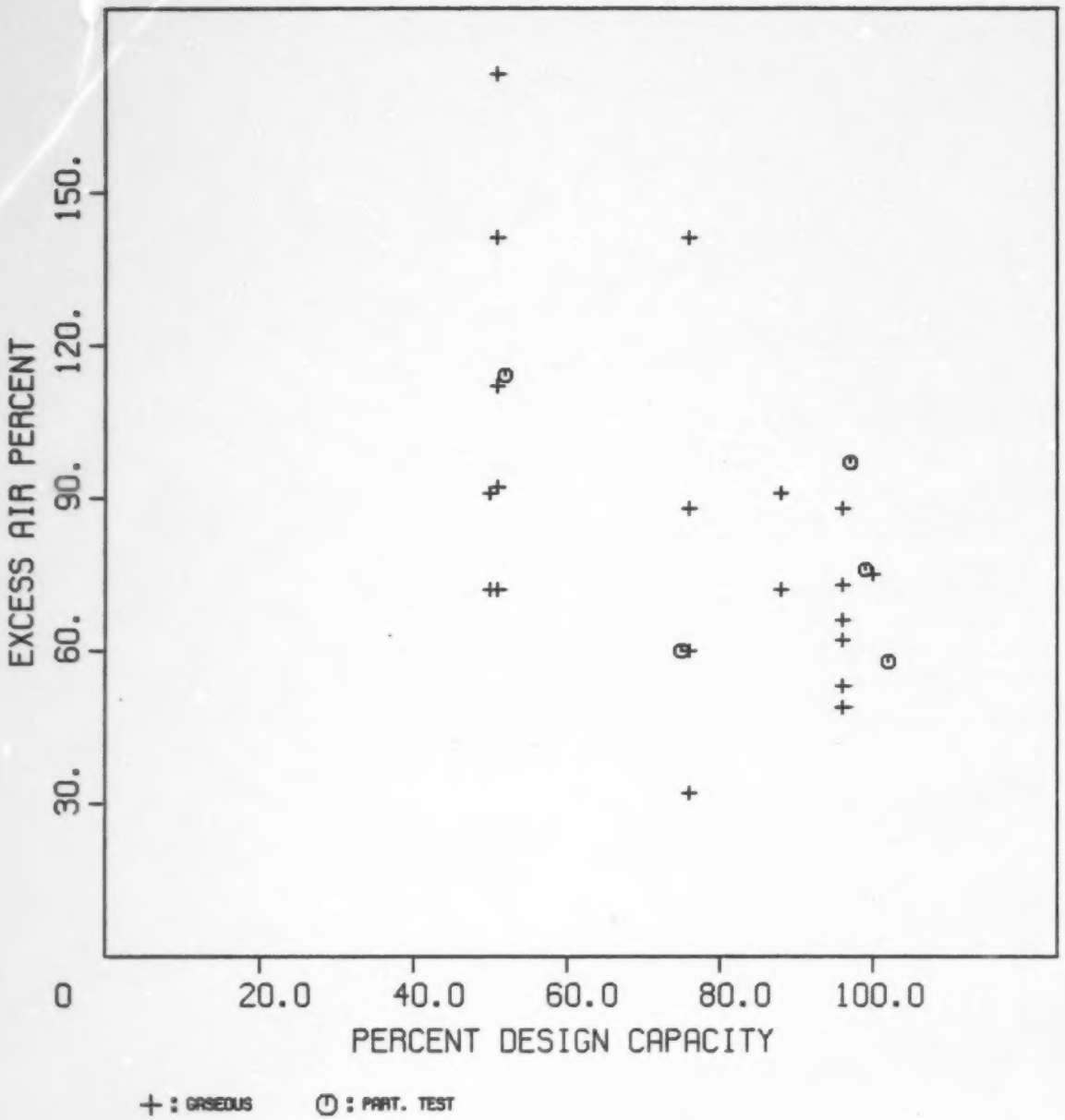


FIG. SITE H
EXCESS AIR VS. PERCENT DESIGN CAPACITY

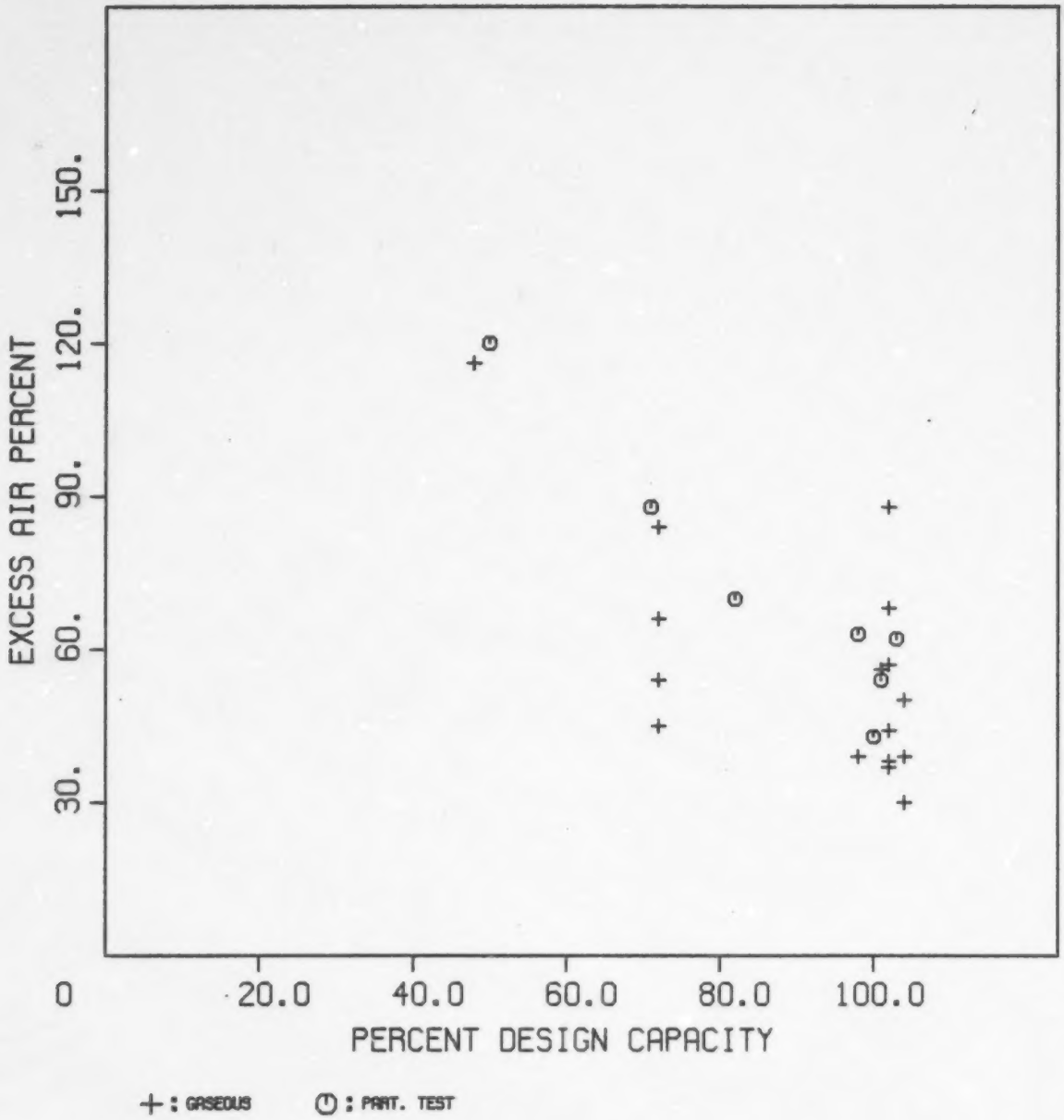


FIG. SITE I
EXCESS AIR VS. PERCENT DESIGN CAPACITY

KVB4-15910-580

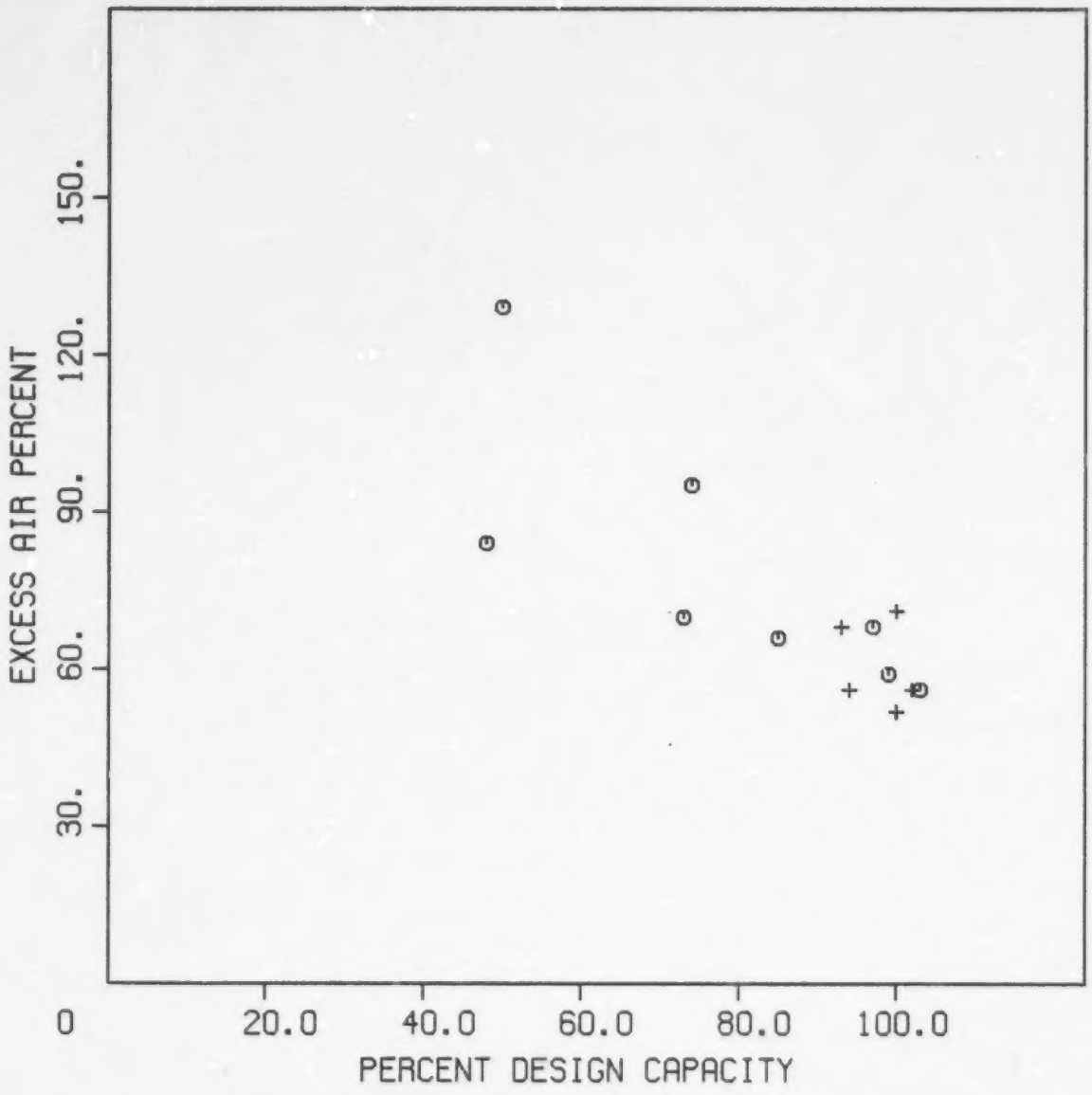


FIG. SITE J
EXCESS AIR VS. PERCENT DESIGN CAPACITY

KVB4-15910-580

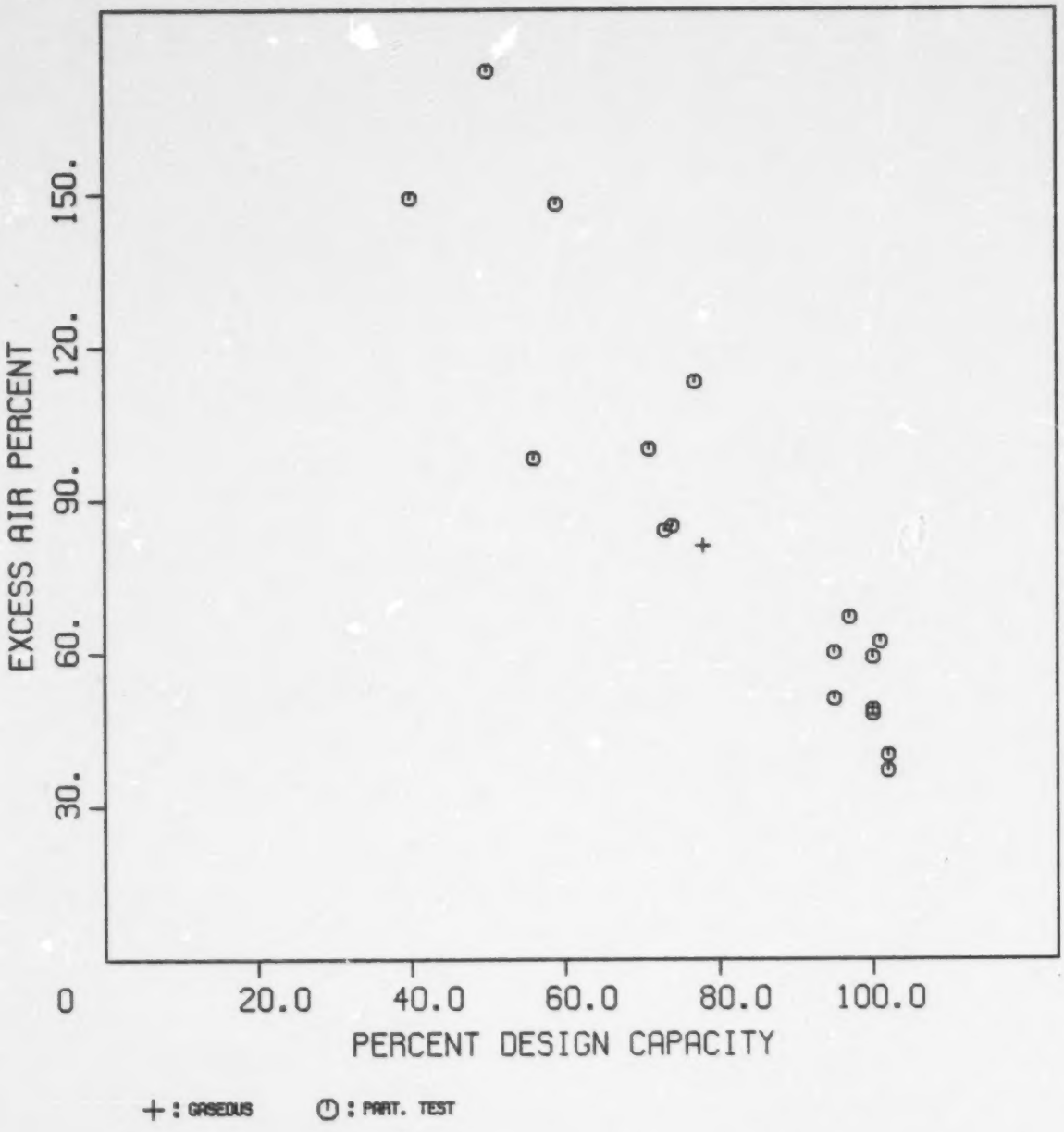


FIG. SITE K
EXCESS AIR VS. PERCENT DESIGN CAPACITY

KYB4-15910-560

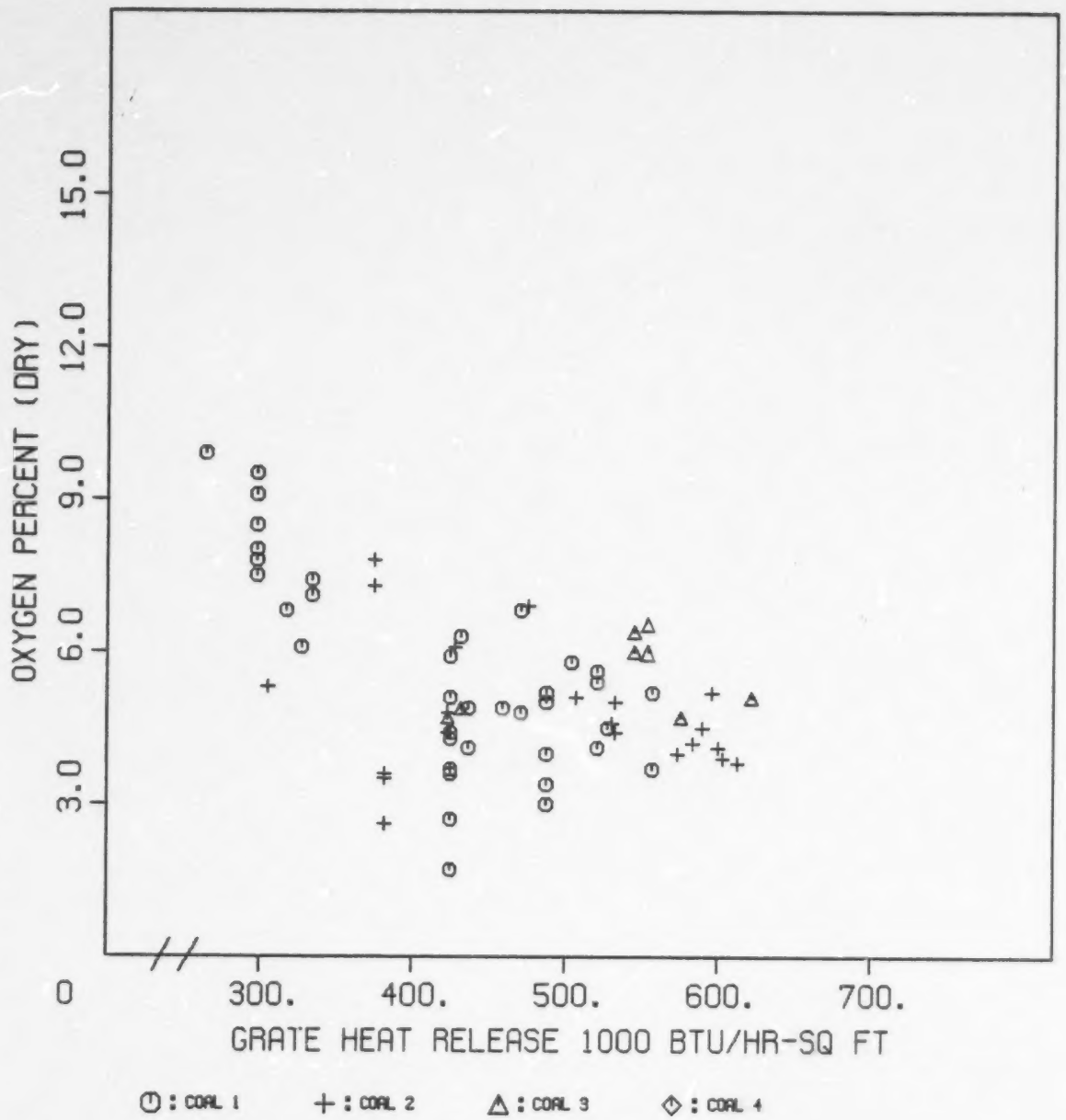


FIG. SITE A
OXYGEN VS. GRATE HEAT RELEASE

KV84-15800-554

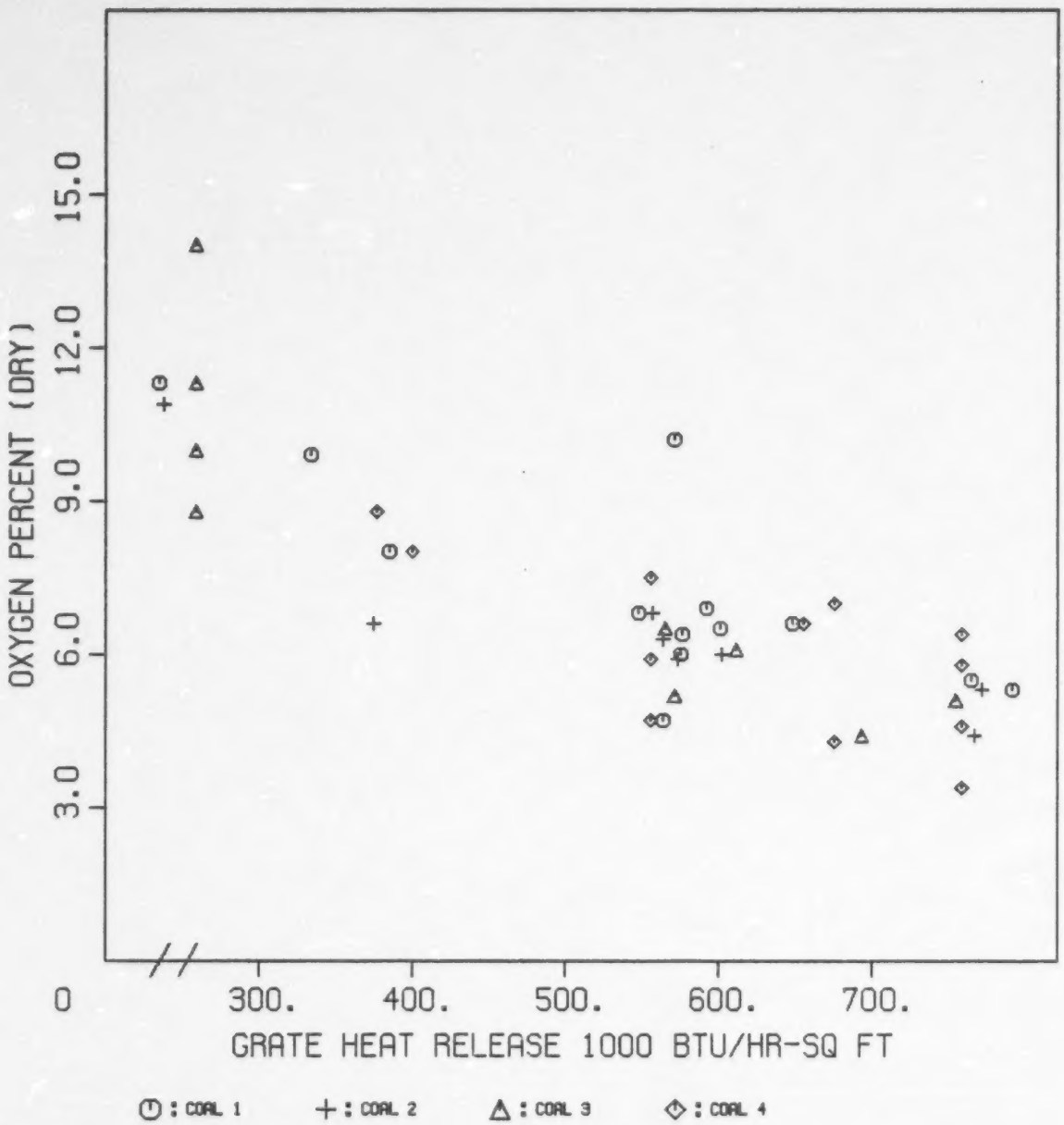


FIG. SITE B
OXYGEN VS. GRATE HEAT RELEASE

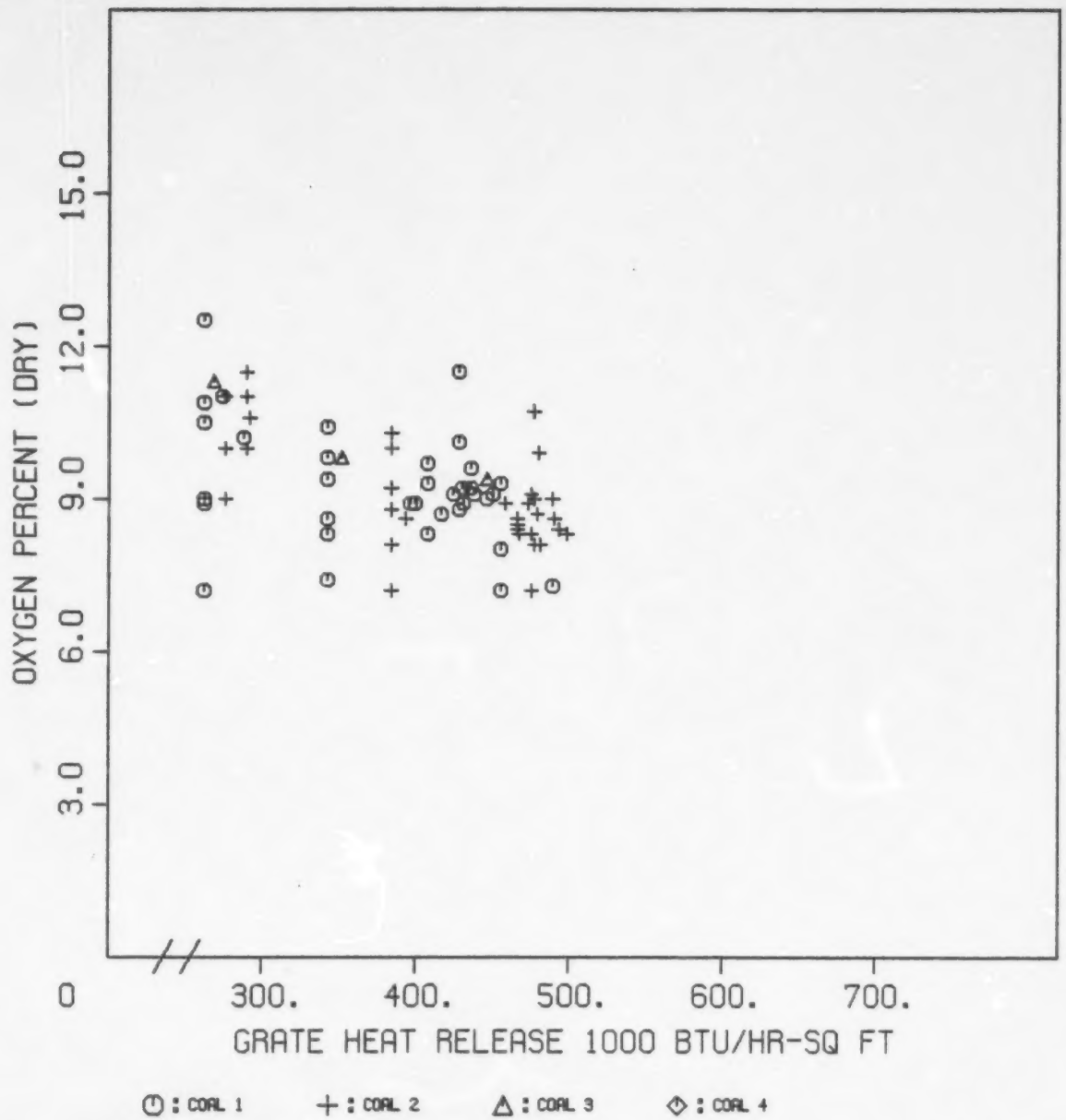


FIG. SITE C
OXYGEN VS. GRATE HEAT RELEASE

KVB4-15900-554

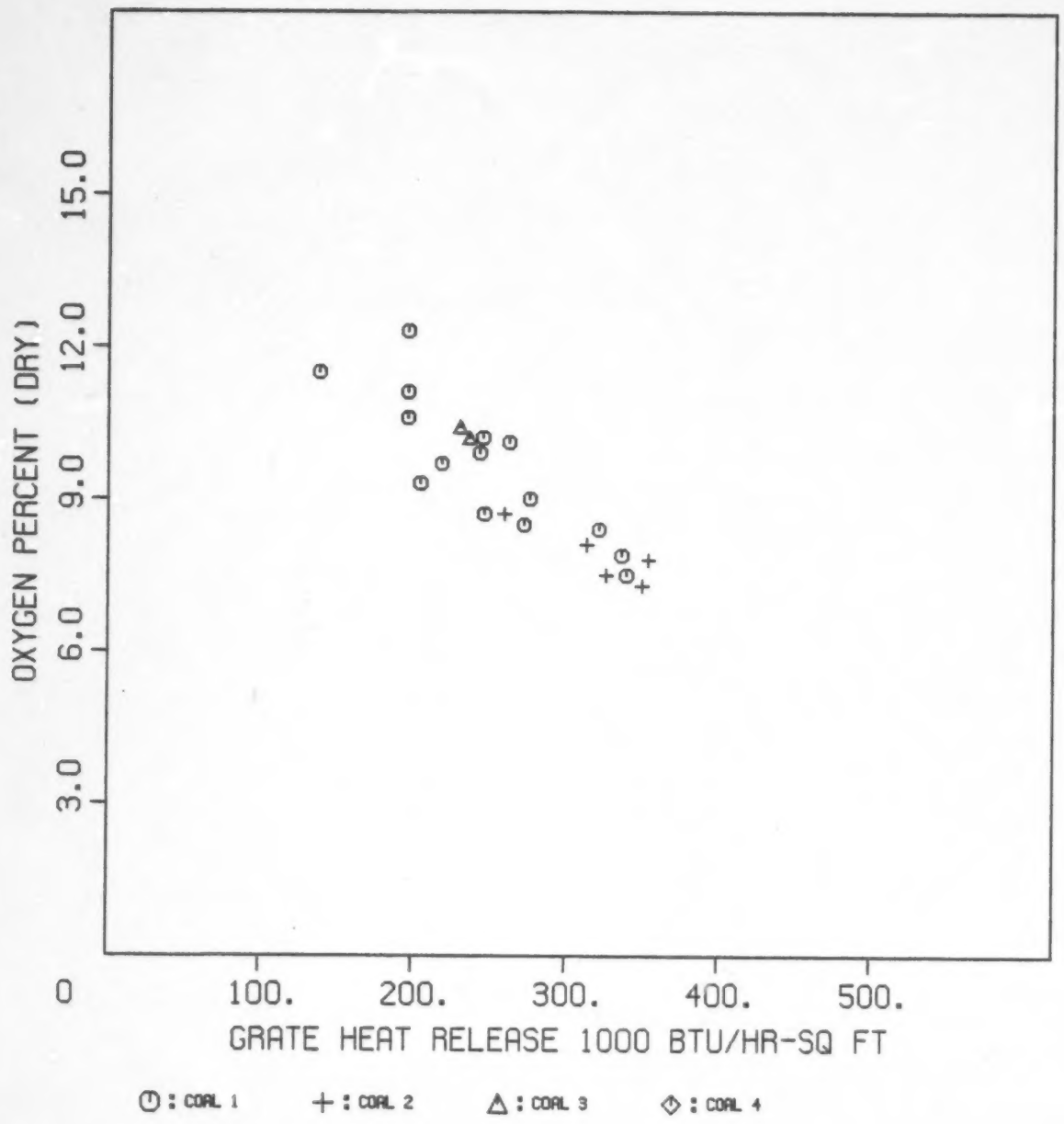


FIG. SITE D
OXYGEN VS. GRATE HEAT RELEASE

KW84-15900-554

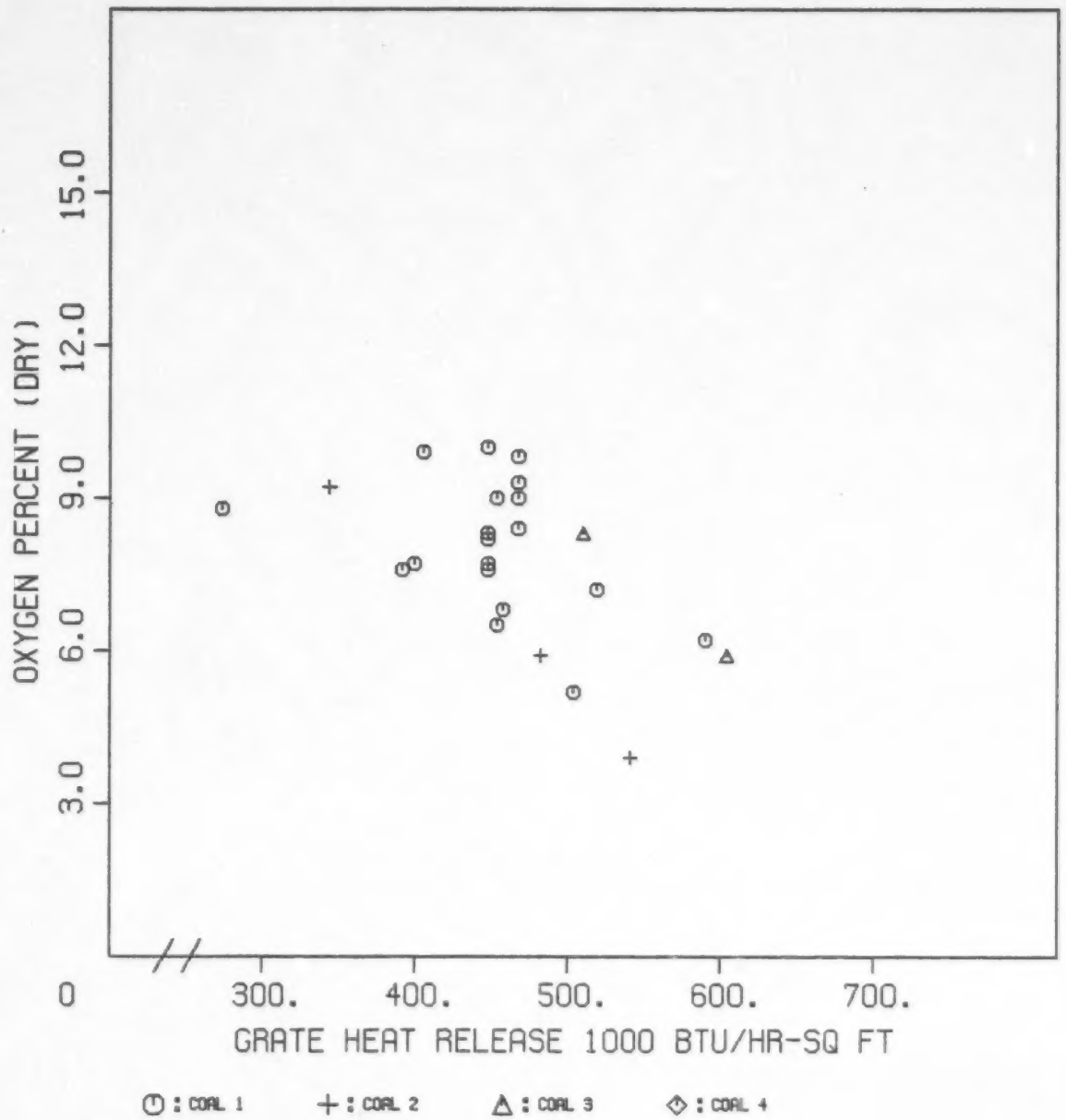


FIG. SITE E
OXYGEN VS. GRATE HEAT RELEASE

KVB4-15800-554

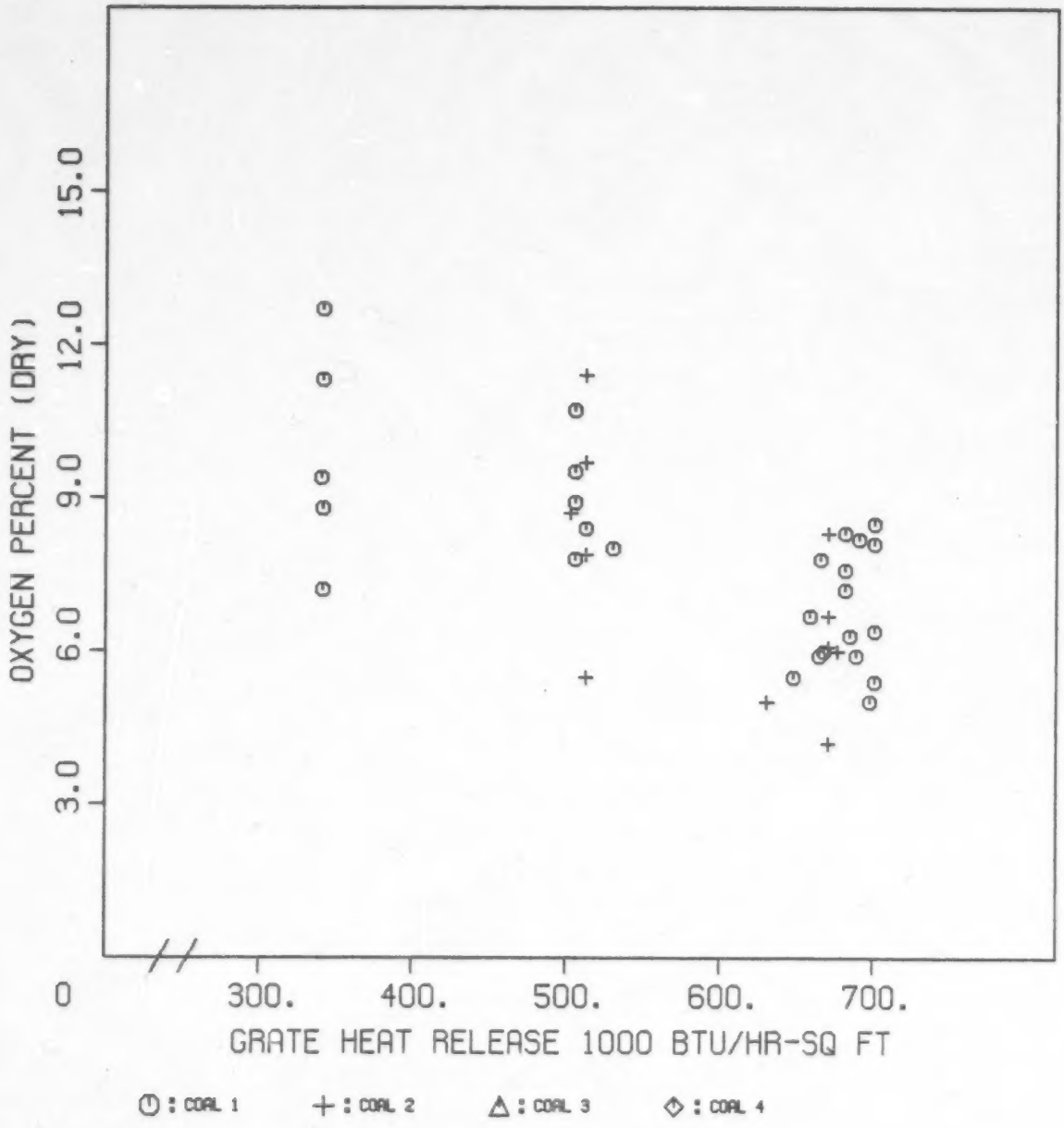


FIG. SITE F
OXYGEN VS. GRATE HEAT RELEASE

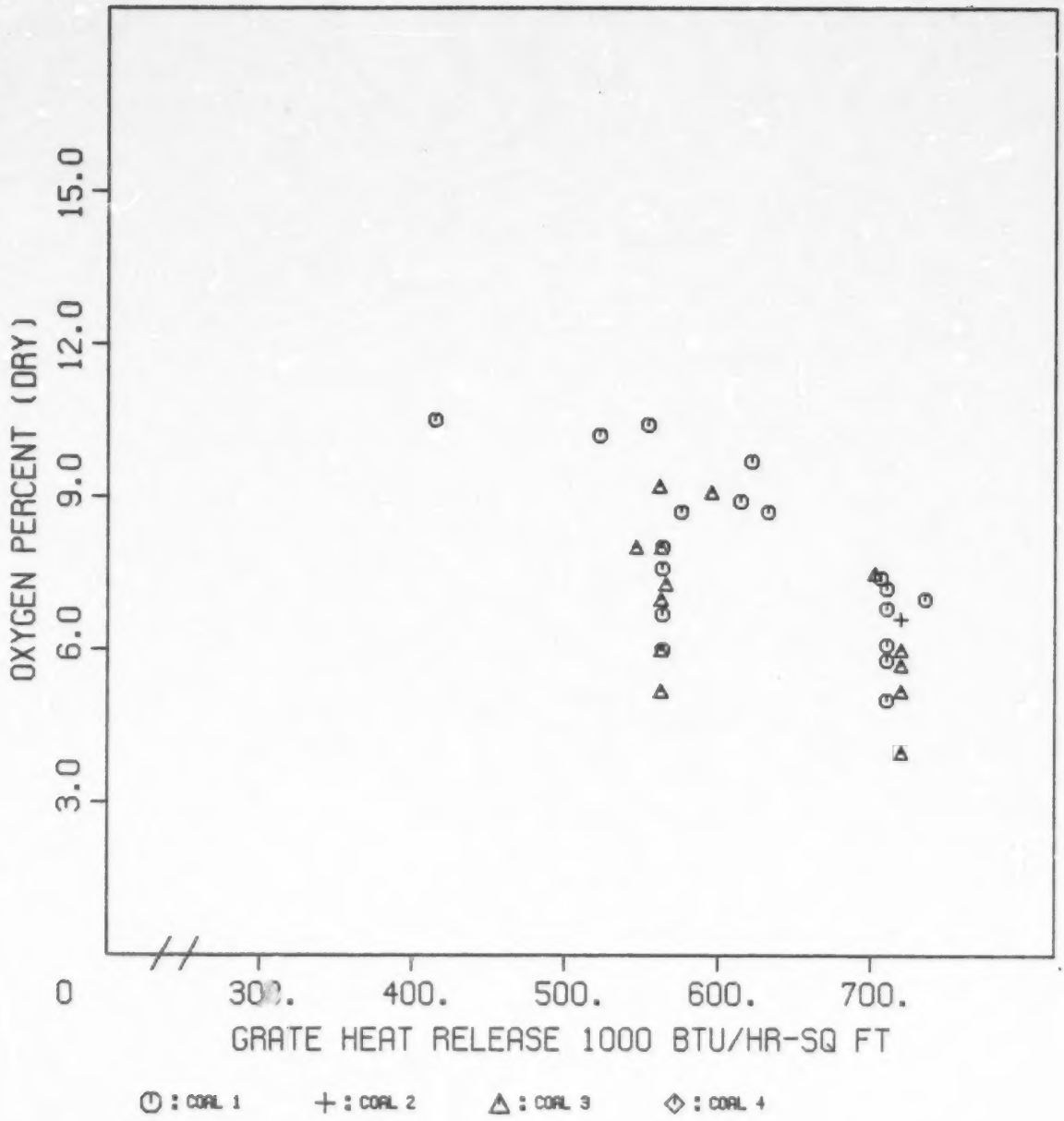


FIG. SITE G
OXYGEN VS. GRATE HEAT RELEASE

KVB4-15900-554

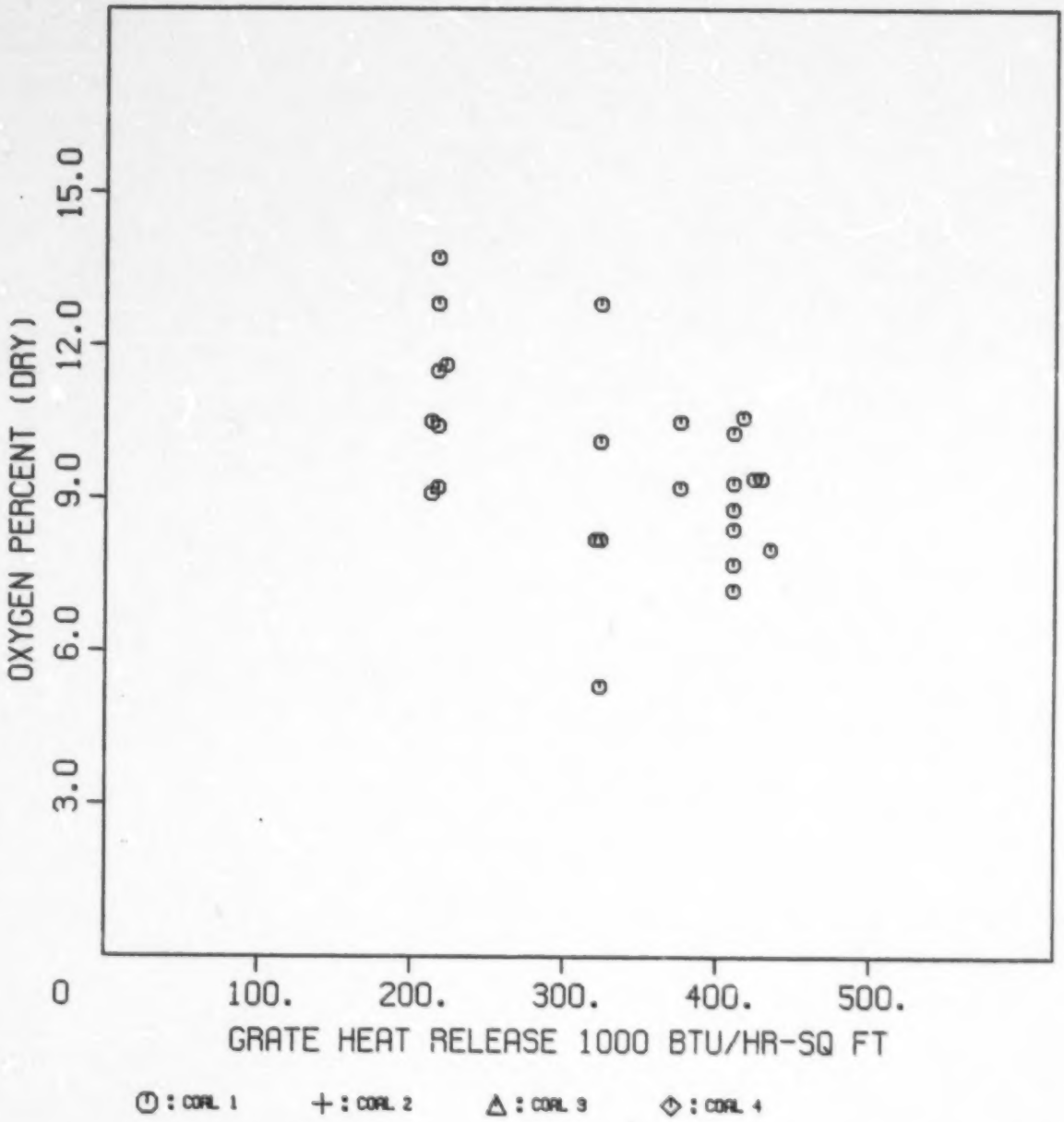


FIG. SITE H
OXYGEN VS. GRATE HEAT RELEASE

KVB4-15800-554

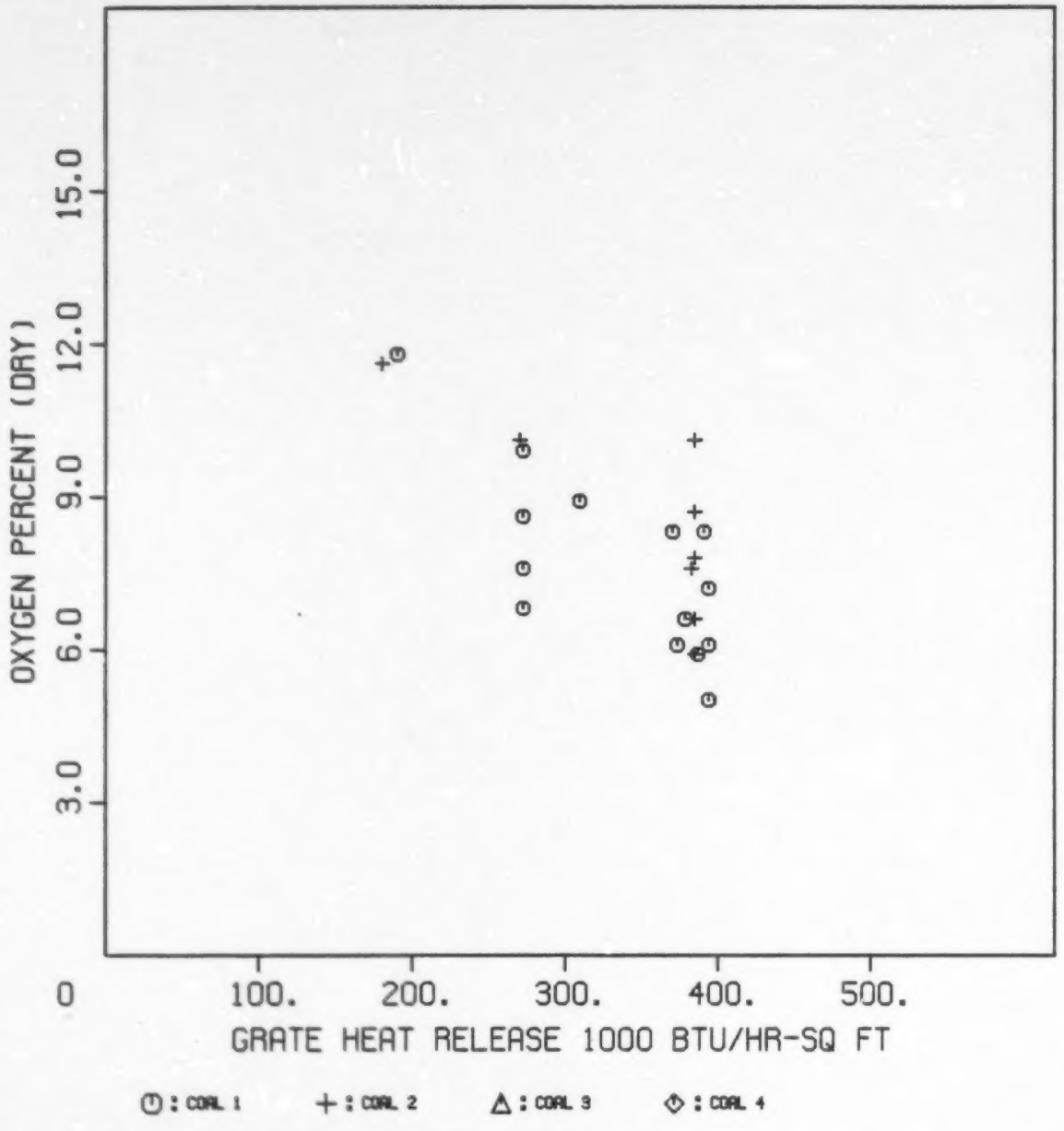


FIG. SITE I
OXYGEN VS. GRATE HEAT RELEASE

KVB4-15800-554

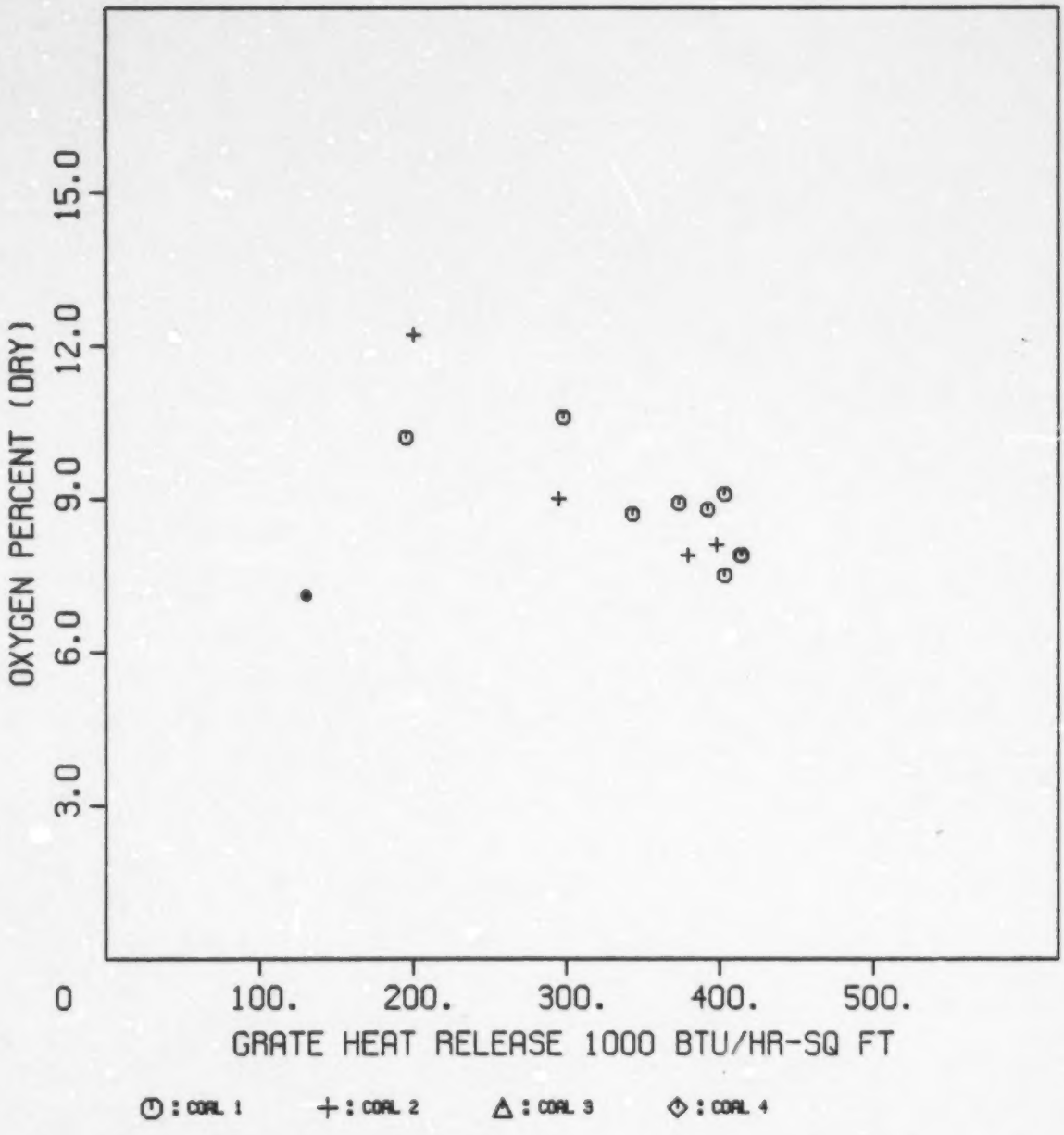


FIG. SITE J
OXYGEN VS. GRATE HEAT RELEASE

KVB4-15800-554

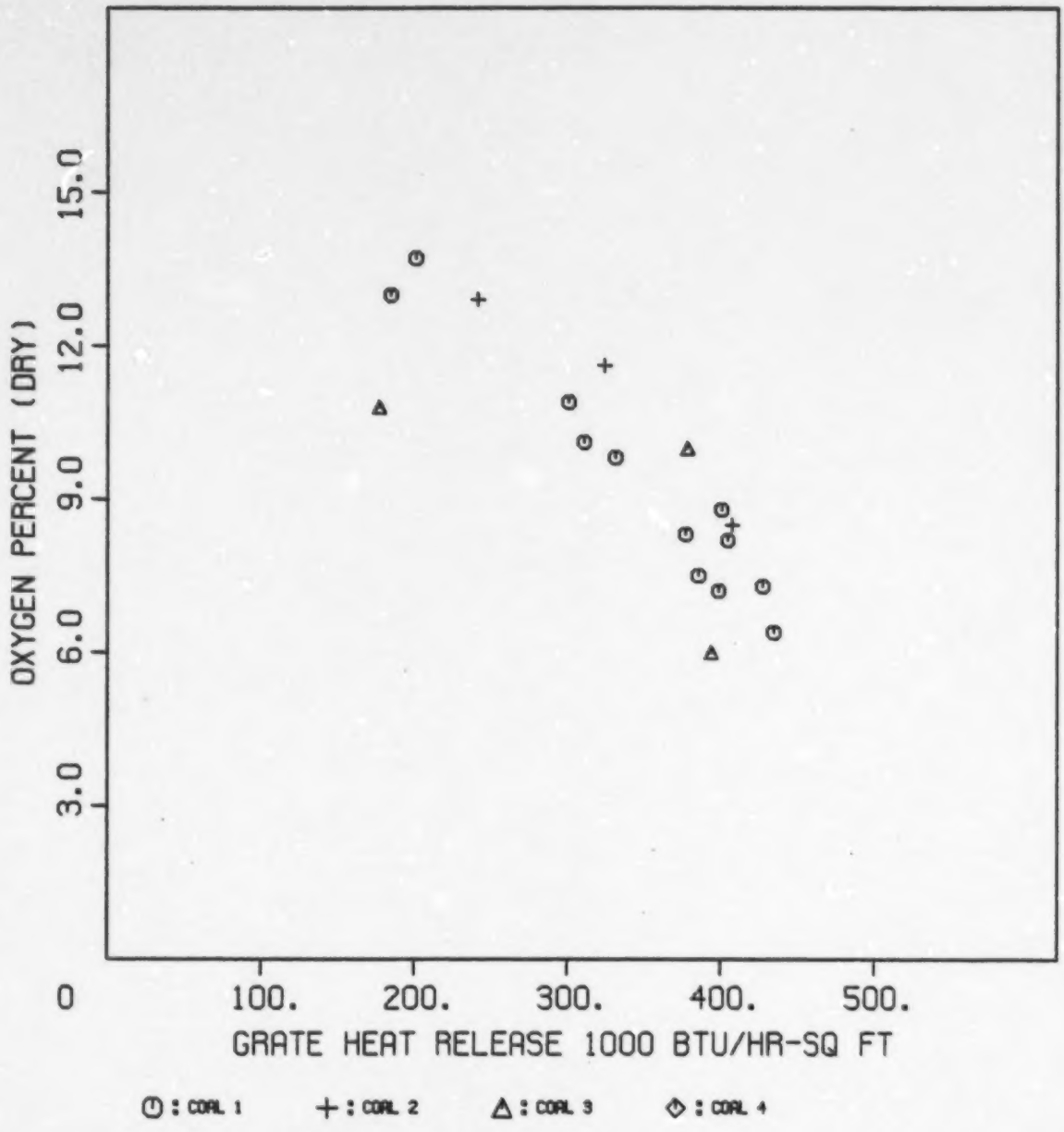
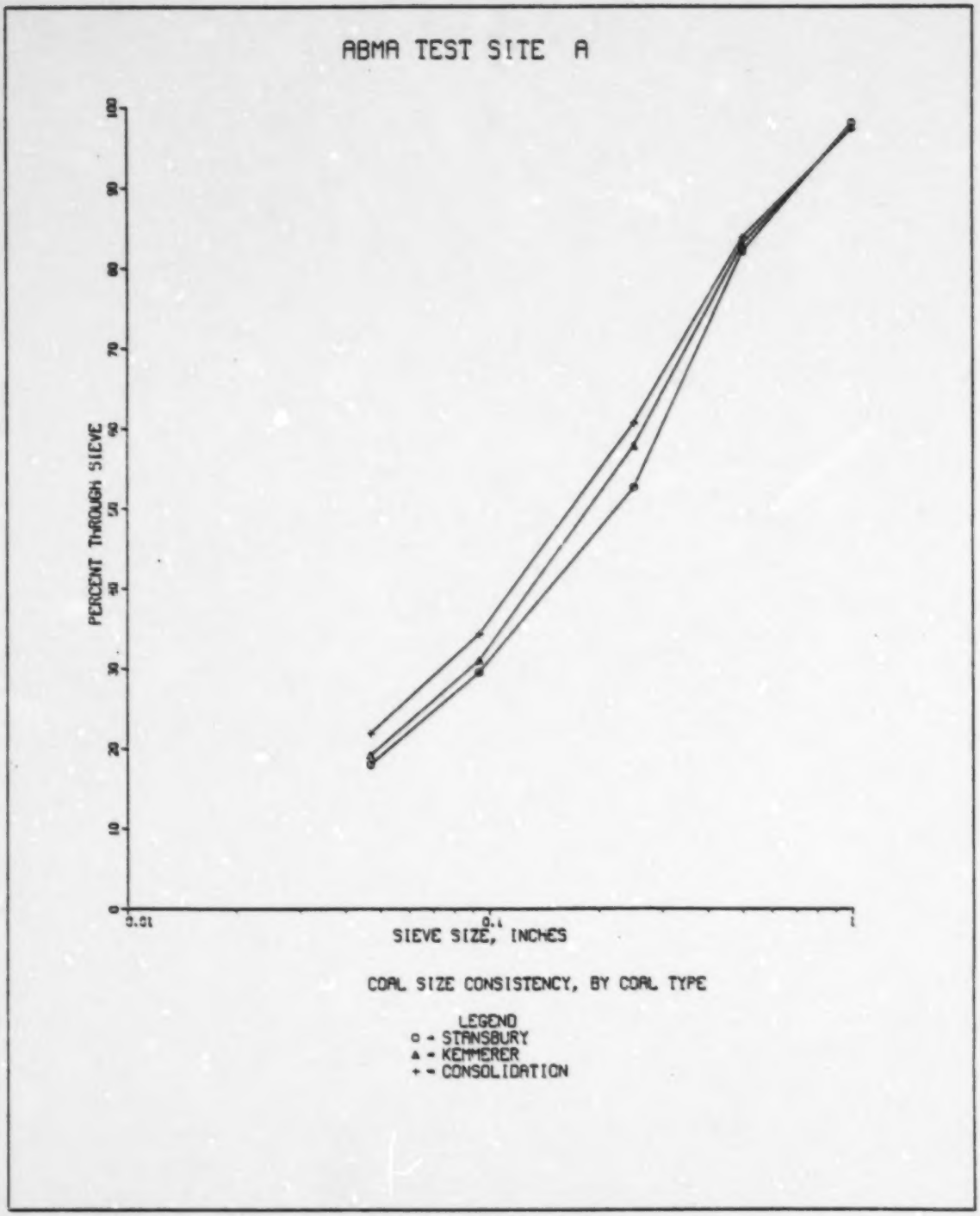
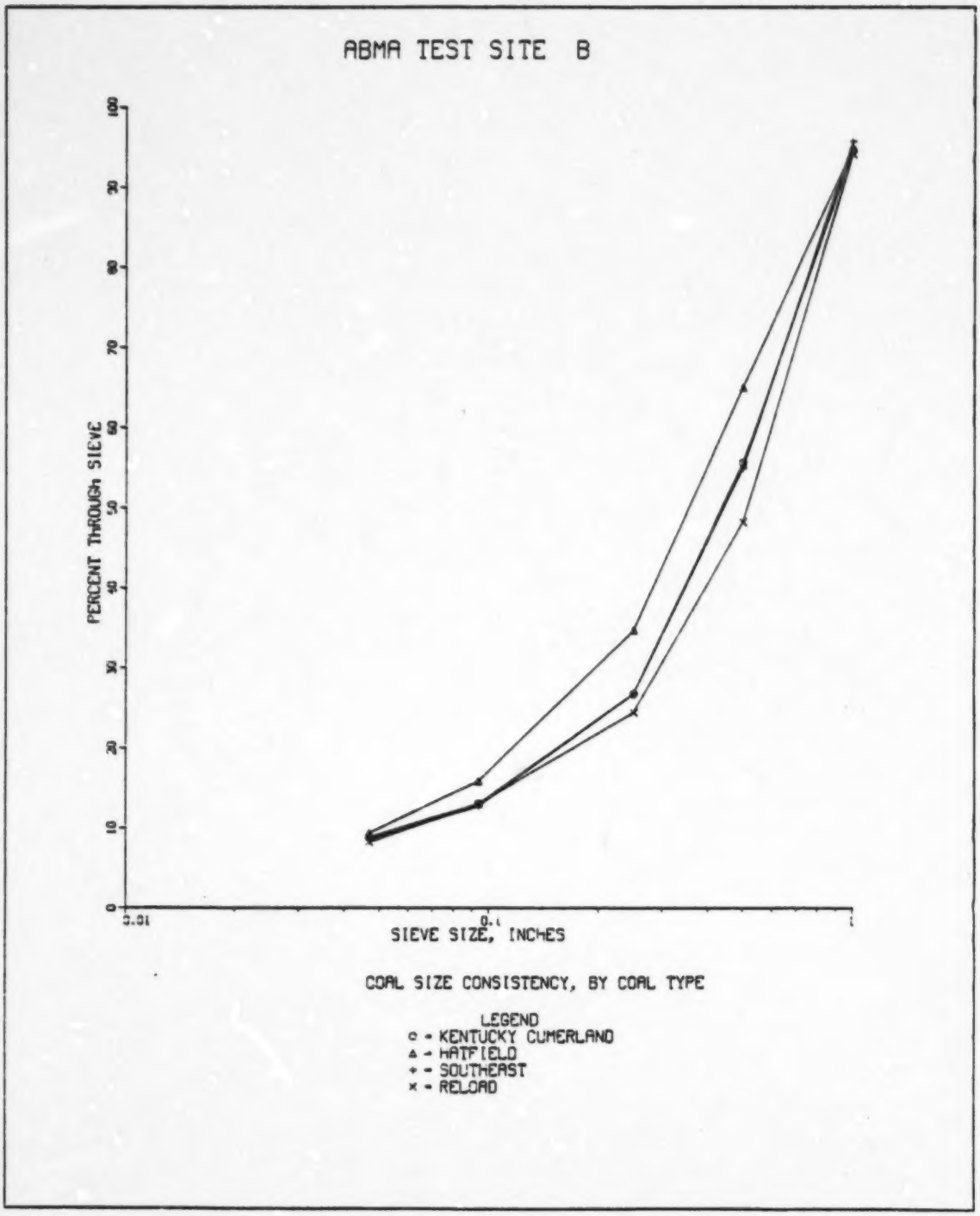
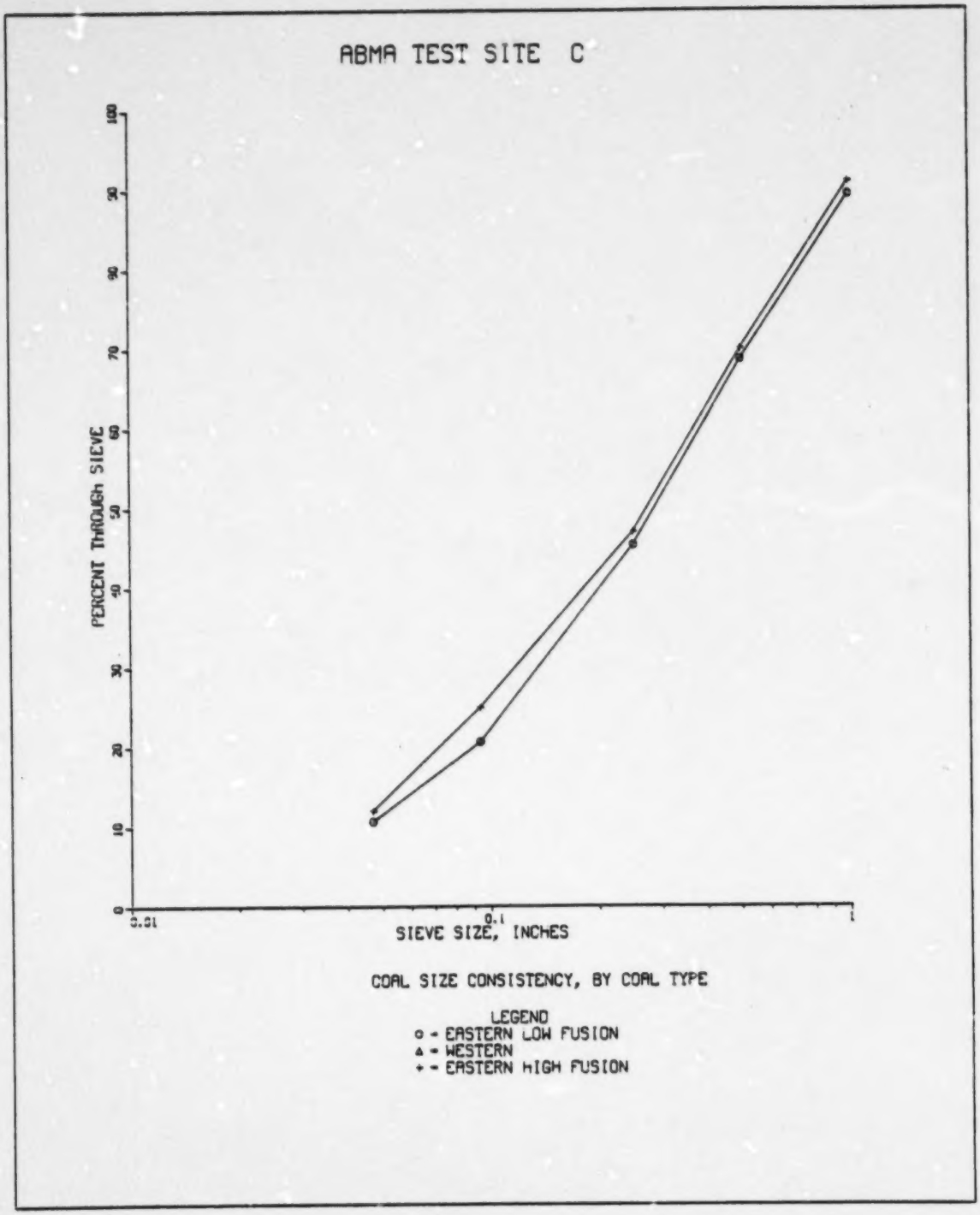
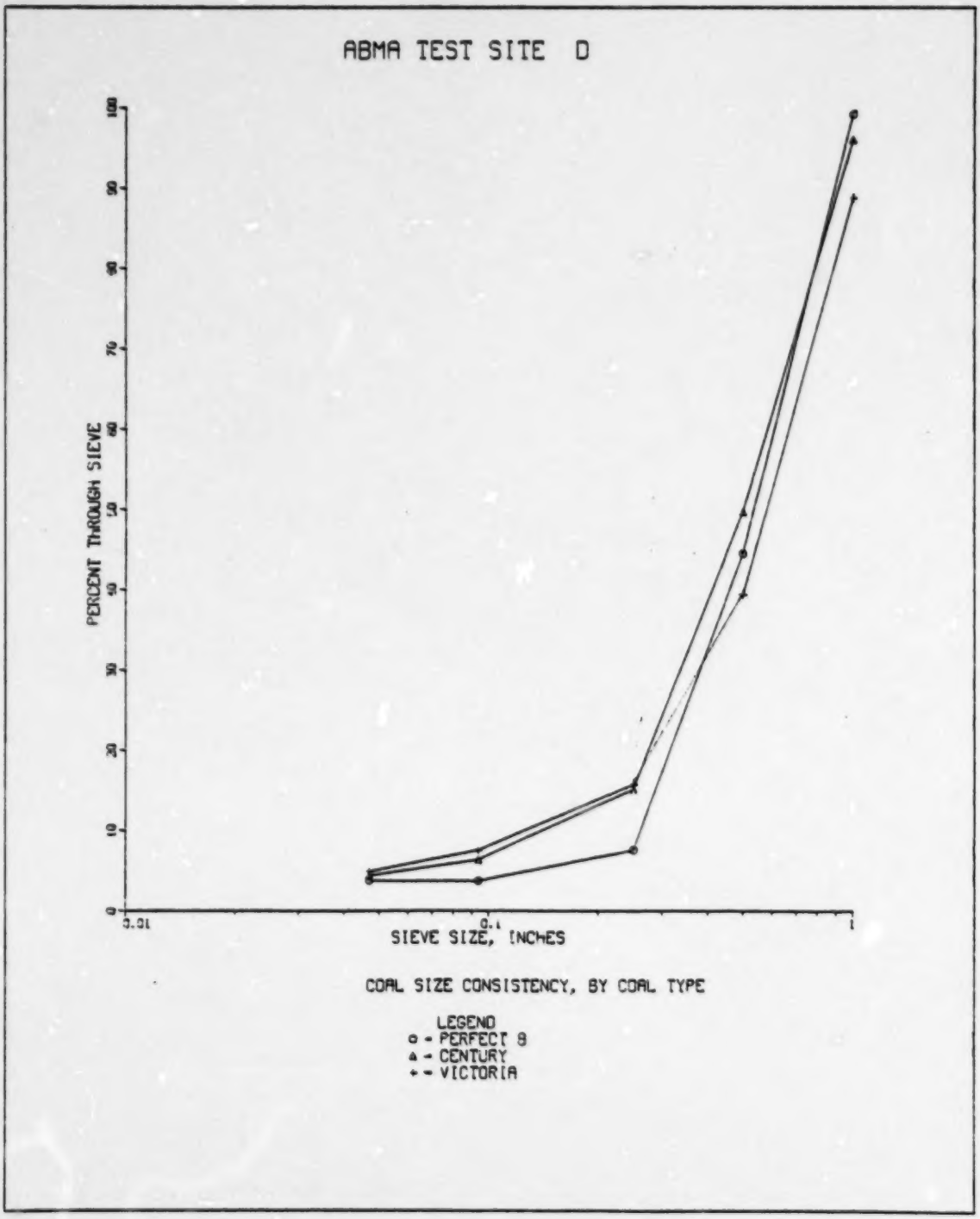


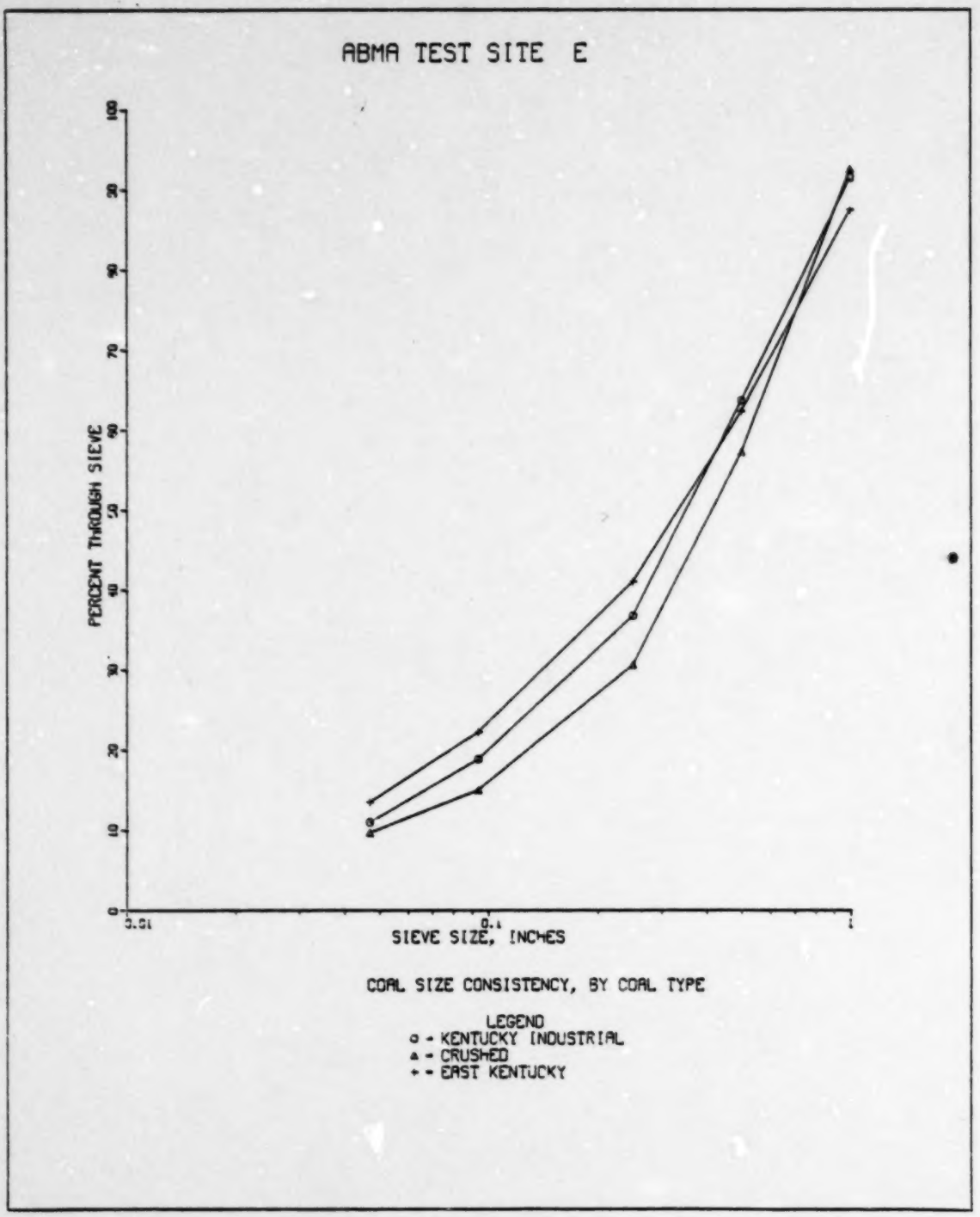
FIG. SITE K
OXYGEN VS. GRATE HEAT RELEASE

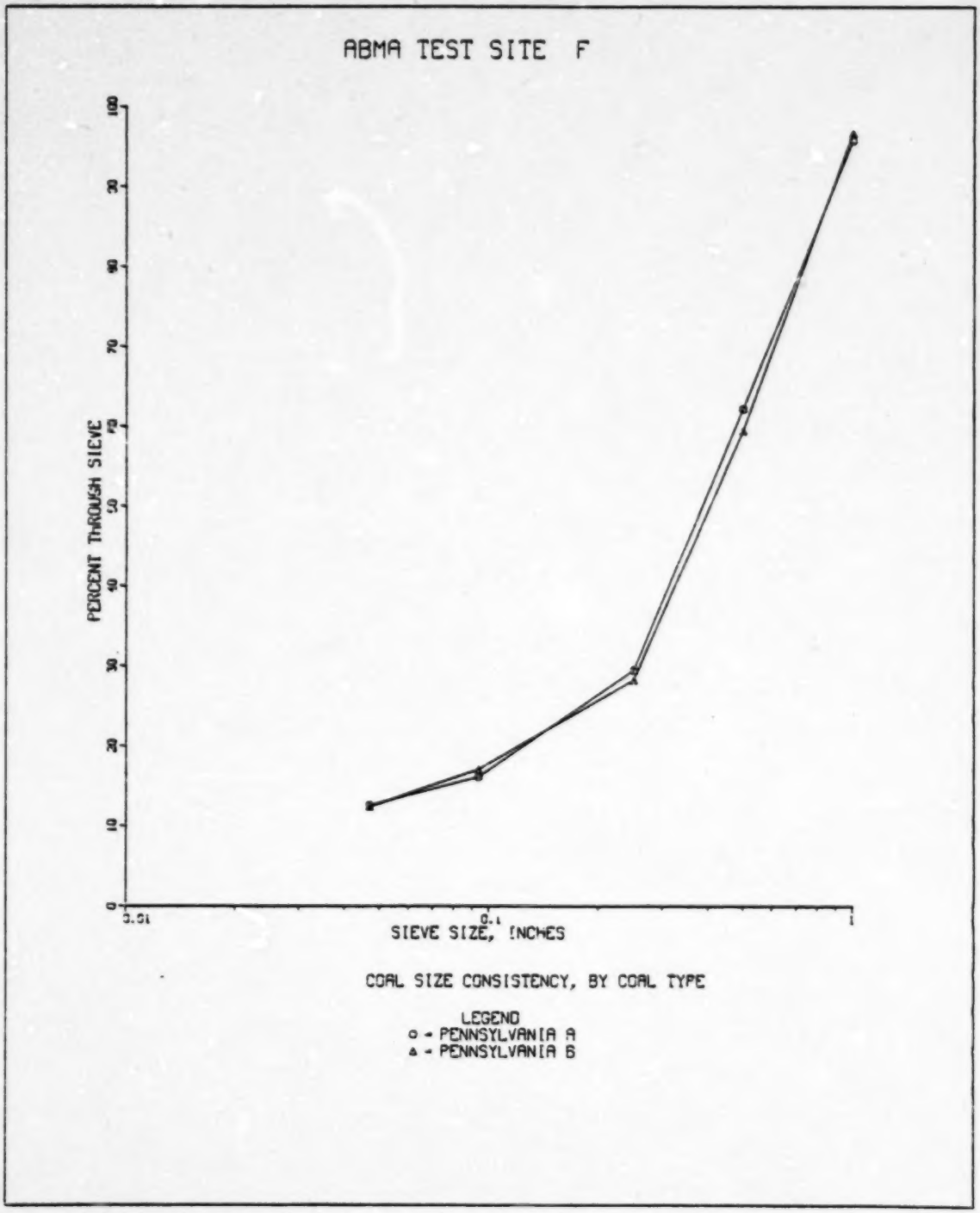

ABMA TEST SITE A
PERCENT THROUGH SIEVE
0
10
20
30
40
50
60
70
80
90
100
0.01
0.1
1
SIEVE SIZE, INCHES
COAL SIZE CONSISTENCY, BY COAL TYPE
LEGEND
o - STANSBURY
▲ - KEMMERER
+ - CONSOLIDATION

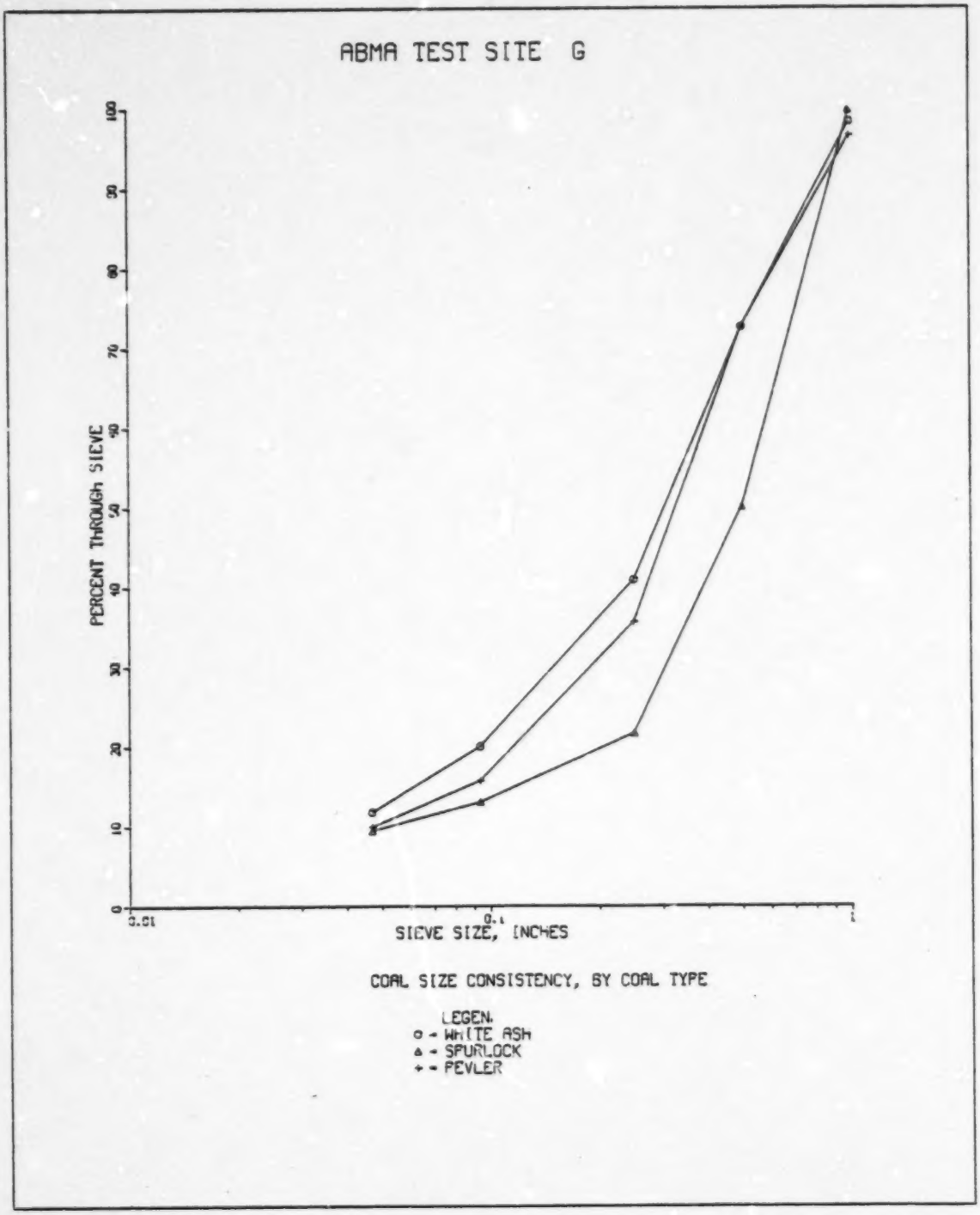

ABMA TEST SITE B
PERCENT THROUGH SIEVE
0
10
20
30
40
50
60
70
80
90
100
0.01
0.1
1
SIEVE SIZE, INCHES
COAL SIZE CONSISTENCY, BY COAL TYPE
LEGEND
o - KENTUCKY CUMERLAND
Δ - HATFIELD
+ - SOUTHEAST
× - RELOAD

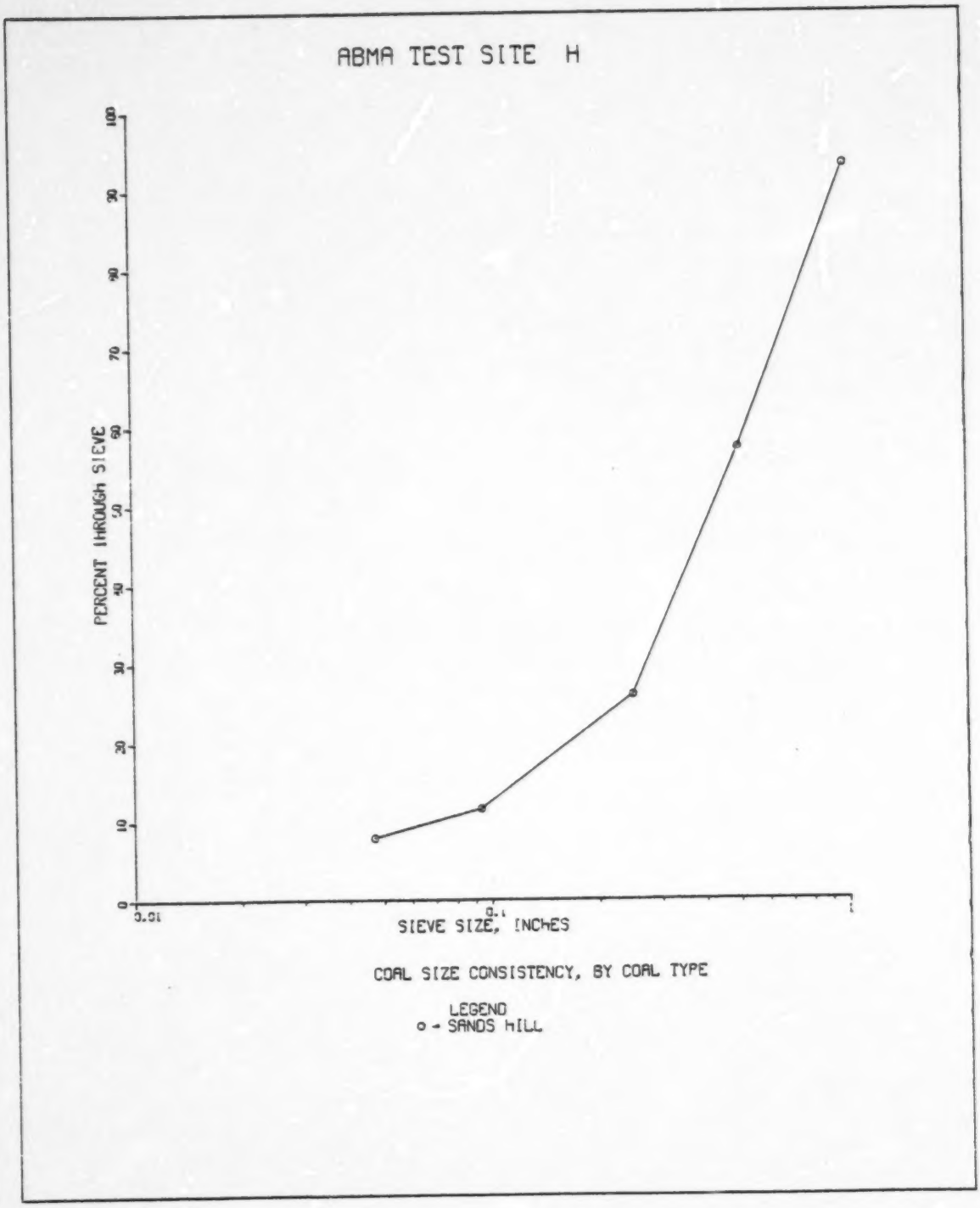

ABMA TEST SITE C
PERCENT THROUGH SIEVE
0
10
20
30
40
50
60
70
80
90
100
0.01
0.1
1
SIEVE SIZE, INCHES
COAL SIZE CONSISTENCY, BY COAL TYPE
LEGEND
o - EASTERN LOW FUSION
Δ - WESTERN
+ - EASTERN HIGH FUSION


ABMA TEST SITE D
PERCENT THROUGH SIEVE
0
10
20
30
40
50
60
70
80
90
100
0.01
0.1
1
SIEVE SIZE, INCHES
COAL SIZE CONSISTENCY, BY COAL TYPE
LEGEND
o - PERFECT 8
Δ - CENTURY
+ - VICTORIA


ABMA TEST SITE E
PERCENT THROUGH SIEVE
0
10
30
50
70
90
100
0.01
0.1
1
SIEVE SIZE, INCHES
COAL SIZE CONSISTENCY, BY COAL TYPE
LEGEND
o - KENTUCKY INDUSTRIAL
▲ - CRUSHED
+ - EAST KENTUCKY


ABMA TEST SITE F
PERCENT THROUGH SIEVE
0
10
20
30
40
50
70
90
100
0.01
0.1
1
SIEVE SIZE, INCHES
COAL SIZE CONSISTENCY, BY COAL TYPE
LEGEND
o - PENNSYLVANIA A
Δ - PENNSYLVANIA B


ABMA TEST SITE G
PERCENT THROUGH SIEVE
0
10
20
30
40
50
60
70
80
90
100
0.01
0.1
1
SIEVE SIZE, INCHES
COAL SIZE CONSISTENCY, BY COAL TYPE
LEGEN
o - WHITE ASH
Δ - SPURLOCK
+ - PEVLER



COAL SIZE CONSISTENCY, BY COAL TYPE

LEGEND
o - SANDS HILL

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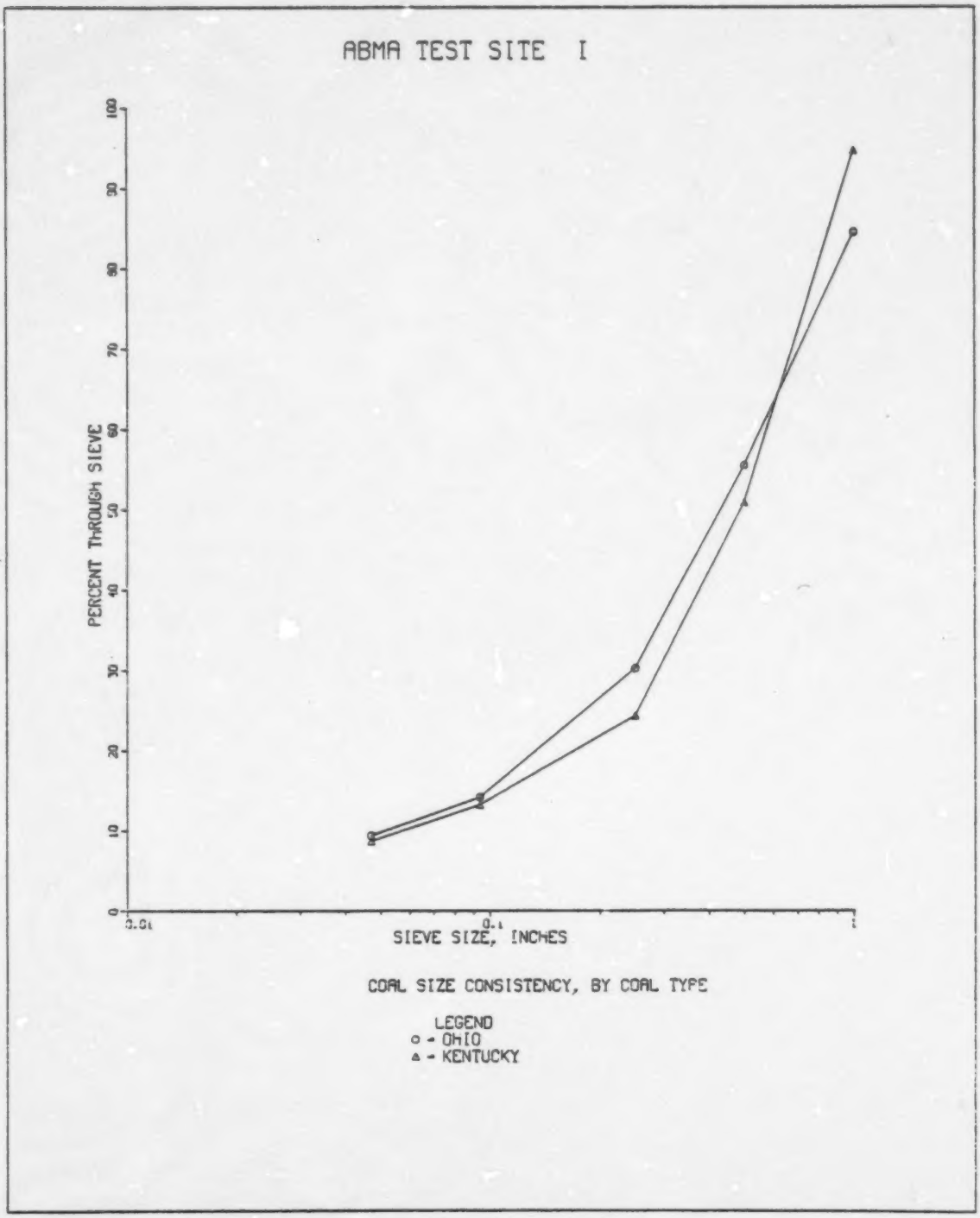
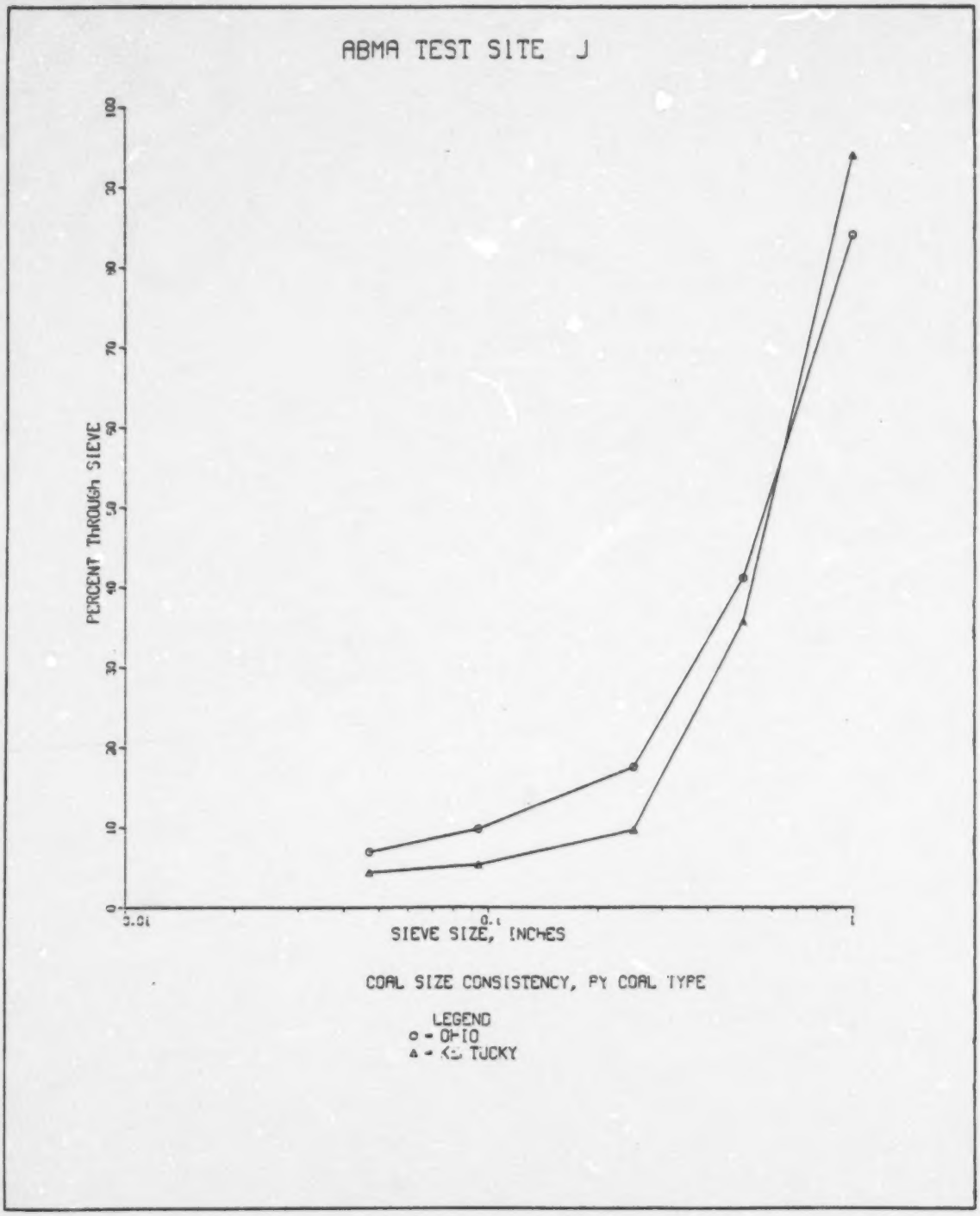
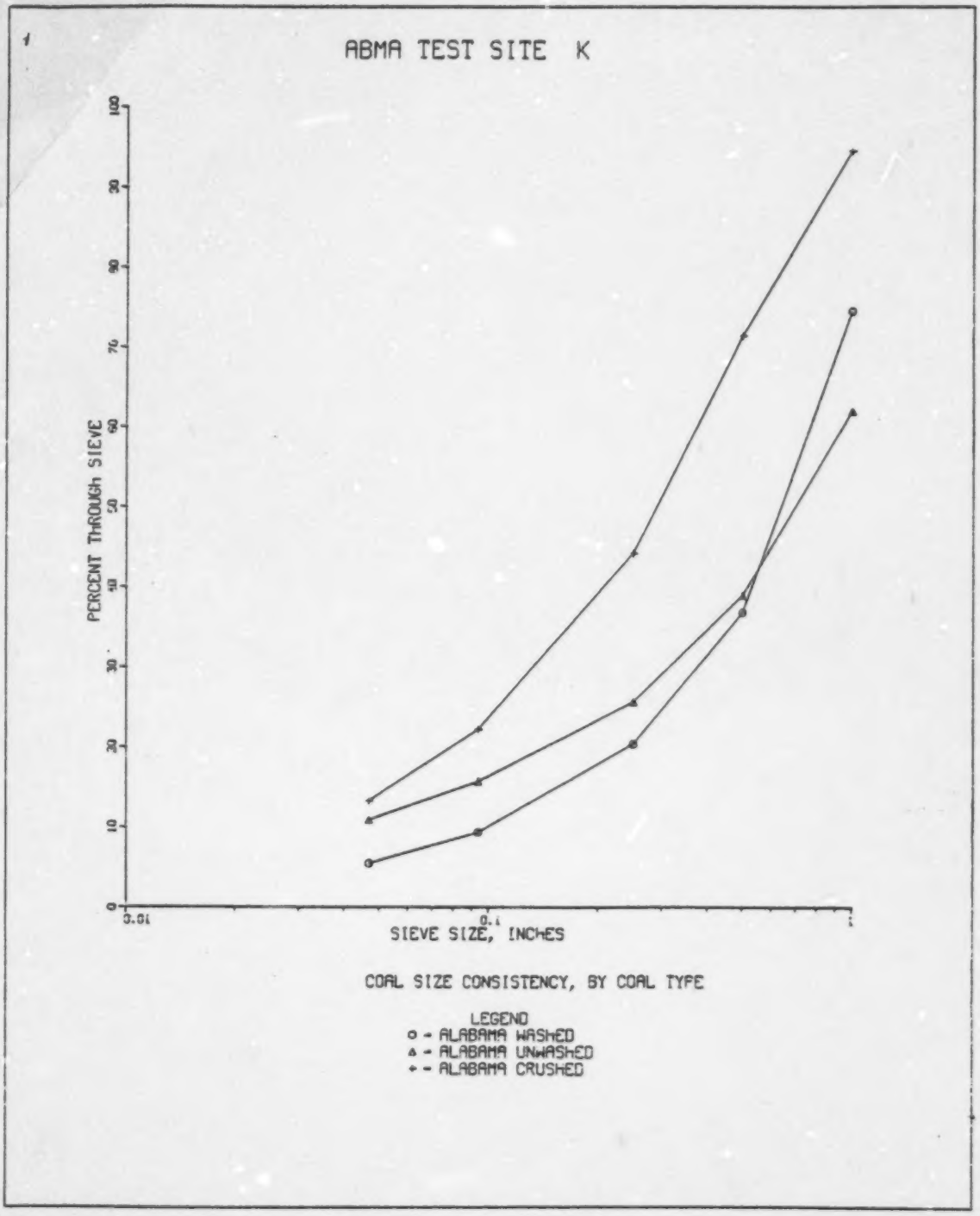

ABMA TEST SITE I
PERCENT THROUGH SIEVE
0
10
20
30
40
50
60
70
80
90
100
0.01
0.1
1
SIEVE SIZE, INCHES
COAL SIZE CONSISTENCY, BY COAL TYPE
LEGEND
o - OHIO
Δ - KENTUCKY



KVB4-15900-554



KVB4-15900-554